

Public Power

NOVEMBER-DECEMBER 1987

- A2625-1
11/6/87

1
CONGRESSIONAL INFO. SERVICE
SRI
4520 EAST-WEST HIGHWAY
BETHESDA
MARYLAND
20814

Public Power Innovation

page 28

publicpower

Editorial and advertising offices:
2301 M Street N.W.
Washington, D.C. 20037
(202) 775-8300 (all departments)

PUBLIC POWER, issued bimonthly, is the official publication of the American Public Power Association. Opinions expressed in signed articles are not necessarily APPA policies. For permission to reprint articles, write or call the publisher.

Editor and publisher
Vic Reinemer
Managing editor
Lori Woehrl
Innovations editor
Jacquie Cochran
Secretary/directory assistant
Margaret Winfough

Advertising manager
W.E. (Trez) Lee
Assistant advertising manager
Peggy Douglas
Circulation manager
Margaret Winfough
Classified advertising manager
Julie Parsley

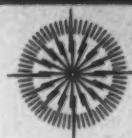
Staff contributors
Ralph Allen
Karen Anderson
Michael K. Bergman
Larry Bruneel
Madalyn Cafruny
Toni Clark
Paul Fry
Cindy Gaskill
Anne Marie Gibbons
Ruth Gonze
Larry Hobart
Marty Kanner
John Kelly
Jill Kunka
Jeanne Wickline LaBella
Dan Lewis
Pat Logie
Lawrence Mansueti
Nancy Mooney
Debbie Nuttall
Eileen Peerless
Alan H. Richardson
Gordon Roberts
Jennifer Sacks
Deborah Sliz
Randy Swisher
Jeff Tarbert

Consulting designer
Leckie/Lehmann

Subscription rate: \$35 per year, single copy \$5; January-February Directory issue: \$40 (\$20 to APPA members).
Second-class circulation postage paid at Washington, D.C.; USPS-449-420



VBPA



AMERICAN PUBLIC POWER ASSOCIATION

2301 M St. N.W., Washington, D.C. 20037 (202) 775-8300

The American Public Power Association (APPA) is a national service organization representing more than 1,750 local publicly owned electric utilities throughout the country.

OFFICERS 1987-88

JOE EXUM, *president*
WALTER A. CANNEY, *president-elect*
WILLIAM C. MESCHER, *vice-president*
C.M. PERKINS, *treasurer*
LARRY HOBART, *executive director*

DIRECTORS

JAMES A. BAUER, *general manager*, Piedmont Municipal Power Agency, Greer, S.C.
JOSEPH BLAIN†, *manager*, Municipal Lighting Plant, Taunton, Mass.
RONALD W. BOLES, *board chairman*, Huntsville Utilities, Huntsville, Ala.
WALTER A. CANNEY, *administrator*, Lincoln Electric System, Lincoln, Neb.
BILL D. CARNAHAN†, *public utilities director*, Riverside, Cal.
DON COLLETTE, *general manager*, McMinnville Electric System, McMinnville, Tenn.
GERALD COPP, *manager*, Public Utility District No. 1 of Chelan County, Wenatchee, Wash.
E. LEON DAGGETT, *director of utilities*, Hamilton, Ohio
MOLLY DARWIN, *councilmember*, Morganton, N.C.
R. HARRY DAWSON, *general manager*, Oklahoma Municipal Power Authority, Edmond, Okla.
DWIGHT DAY†, *board member*, Utah Associated Municipal Power Systems, Salt Lake City, Utah
JOE EXUM, *general manager*, Jackson Utility Division, Jackson, Tenn.
ERNEST GEDDES, *general manager*, Turlock Irrigation District, Turlock, Cal.
GILBERT E. HANSON JR., *general manager*, Kansas Municipal Energy Agency, Mission, Kan.
RANDALL W. HARDY†, *superintendent*, Seattle City Light, Seattle, Wash.
RICHARD HORKINS, *chairman*, Toronto Hydro Electric System, Toronto, Ontario

EDWIN C. HOSKINS, *general manager*, Knoxville Utilities Board, Knoxville, Tenn.
EARL LAMAACK, *board of directors*, Missouri Basin Municipal Power Agency, Alexandria, Minn.
STEVE LOVELAND, *Springfield Utility Board*, Springfield, Ore.
ROYCE LYLES, *managing director*, Jacksonville Electric Authority, Jacksonville, Fla.
CAROLYN S. MCNEIL†, *general manager*, Utah Associated Municipal Power Systems, Sandy, Utah
WILLIAM C. MESCHER, *president*, Santee Cooper, Moncks Corner, S.C.
TIM MORAWSKI, *general manager*, Board of Public Works, Holland, Mich.
BOB NELSON†, *utilities director*, Denton Electric Light & Power, Denton, Texas
NORMAN NICHOLS, *assistant general manager*, Department of Water & Power, Los Angeles, Cal.
REECE D. NIELSEN, *chairman, board of directors*, Intermountain Power Agency, Hyrum, Utah
PAUL W. OSLER, *executive director*, Indiana Municipal Electric Association, Carmel, Ind.
DAVE PENN, *general manager*, Wisconsin Public Power Inc. System, Sun Prairie, Wis.
C.M. PERKINS, *assistant general manager/financial services*, Salt River Project, Phoenix, Ariz.
CHARLES F. ROSSOLL, *chief engineer/assistant general manager*, Department of Public Utilities, Norwich, Conn.
ROBERT E. ROUNDTREE†, *general manager*, City Utilities, Springfield, Mo.
DON E. SCHAUFELBERGER, *president and chief executive officer*, Nebraska Public Power District, Columbus, Neb.
E.C. SHREVE JR., *executive vice president*, Florida Municipal Utilities Association, Tallahassee, Fla.
DONALD L. STOKLEY, *general manager*, Municipal Electric Authority of Georgia, Atlanta, Ga.
WILLIAM G. TOBIN, *manager*, Rock Rapids Utilities, Rock Rapids, Iowa
ROBERT VAISEY, *general manager*, Fairport Municipal Commission, Fairport, N.Y.

† Executive Committee member
‡ Represents Policy Boards Advisory Council
* Represents Advisory Committee

Cutting Costs in North Carolina

by JACK CHILDS

director of communications, ElectriCities of North Carolina

TRIPLING RETURN ON INVESTMENT in a year, to the average investor, sounds too good to be true. For a number of North Carolina cities and towns, however, the opportunity to realize such savings through improvements to their municipal electric distribution systems is at hand.

They are among the 57 members of ElectriCities of North Carolina Inc. that decided last year to participate in an innovative "system betterment program," devised to improve reliability and efficiency and reduce operation and maintenance costs.

Sixty-four of North Carolina's 72 municipals belong to ElectriCities, and 60 of the systems receive all their wholesale power from one of the two North Carolina municipal power agencies—N.C. Municipal Power Agency #1 and N.C. Eastern Municipal Power Agency—which supplanted the municipals' investor-owned power suppliers in the early '80s. Managed and staffed under contract by ElectriCities, the power agencies provide the municipal systems more control over their electricity supply than the IOUs did, through undivided ownership interests in major generation plants built and operated by two of the state's major IOUs.

Since its incorporation in 1984 as a joint municipal assistance agency, ElectriCities has significantly increased its demand-side assistance programs; individual utilities' dues and fees finance them. Through ElectriCities, municipalities cut costs of aerial device testing, polychlorinated biphenyl (PCB) disposal, infrared scanning and substation operation. They also aid sister communities

severely damaged by natural disasters. Other membership benefits include a comprehensive safety program, retail ratemaking assistance, energy management programs, workshops and schools.

Aid is Tailor-Made

Most of these services are geared to helping members improve cost-effectiveness. That's nothing new. But traditionally

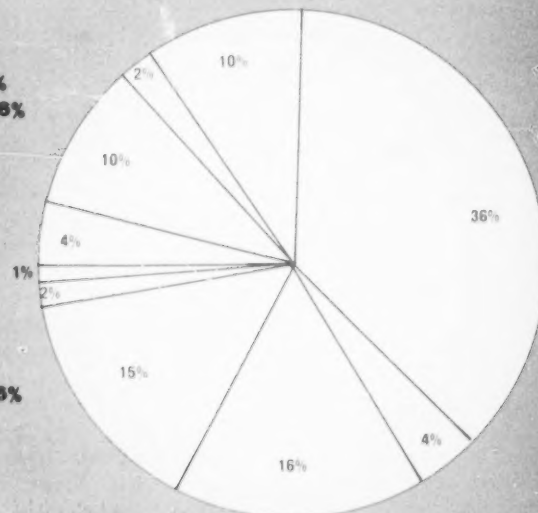
such services follow a generic approach, and do not identify the specific needs of each member's local distribution system. The system betterment program was launched last summer to fill that void, said ElectriCities General Manager James T. Bobo.

Now, a year later, the 57 program participants have in hand 255 recommended system improvement projects that, if im-

The pie chart below shows the various types of recommended system improvement projects, and the estimated cost to implement them among the 57 participating N.C. public power systems. The chart on the right shows the estimated first-year saving from each improvement category.

COST

Capacitors **15%**
Provide services to Municipal Facilities **2%**
Standby Generation **16%**
Municipal Load Management **4%**
Transformer Replacement **1%**
Street Lighting **4%**
Residential Load Management **10%**
Voltage Control **2%**
Other **10%**
Increase Voltages **0%**
Circuit Conversions **36%**



plemented, could eventually save them more than \$6 million a year collectively. Two-thirds of the projects are projected to pay for themselves in four years or less; 40 percent in the very first year. By spending \$1.1 million to implement the first-year payback projects alone, cities will save an estimated \$3.8 million per year.

William G. Wemhoff, ElectriCities' director of engineering, conceived the system betterment program. He saw it as a way to help members offset future wholesale rate increases. Furthermore, upgraded individual systems help their power agencies maintain good bond ratings in the investment markets.

Participation in the program is voluntary. Systems that elected to participate committed to a full year of funding ending July 1, 1987. Each participant contributed at the rate of .003 cents per kWh of its wholesale electric purchases.

This brought in \$228,864 from the 57 participants. The biggest expense, \$96,640, financed a key element of the program—employment of private engineering firms to evaluate each municipal system and recommend improvement projects.

Three consultant firms contracted with ElectriCities to participate. Each

city then chose among them: Black & Veatch Inc., with regional headquarters in Asheville; Booth & Associates, Raleigh; and Southeastern Consulting Engineers Inc., Charlotte. In many cases, cities chose firms they had worked with in the past and that already had some familiarity with their systems.

In on-site visits and review of the municipalities' electric systems, consulting engineers were charged with finding:

- projects that maximize benefits of municipal electric ownership;
- methods by which ElectriCities' members could reduce operation and maintenance costs and improve efficiency and reliability;
- projects that provide evidence to ratepayers that the municipality is doing everything it can to reduce operation and maintenance costs and, as a result, striving to maintain stable power costs.

The consultants were instructed to make certain they coordinated each system review with the municipal system's staff. In developing project recommendations, the firms were told to consider the level of short-term and long-term benefits; ease of implementation; capital outlay required; immediacy of return on investment; and technical feasibility. Part of the engineers' job was to provide

cost estimates and potential savings for each recommended project.

Voltage Control Paying Off

The coastal city of Southport, among the first to implement some of the recommended improvements, found it could save an estimated \$3,300 the first year by merely increasing its distribution voltage at no cost. By spending \$4,800 on a voltage control project, it could save an estimated \$93,000 the first year and a whopping \$800,000 over 10 years.

"We were already contemplating some of the things the engineers pointed out but we were made aware of other improvements for the first time," said Southport City Manager Nelson E. Smith.

Nearly 300 miles away, in the Appalachian foothills, the program is having similar impact. The city of Morganton—where APPA Director Molly M. Darwin serves on the City Council—is implementing several system betterment projects ranging from a major expansion of its residential load-management system to the placement of capacitors in optimum locations as determined by computer analysis.

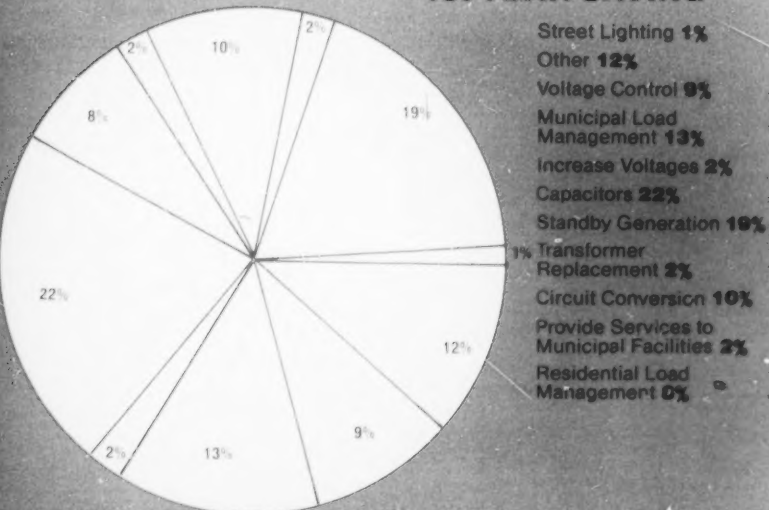
The program allows many smaller towns and cities to get the kind of professional advice they would have difficulty affording on their own.

"Sometimes there is a reluctance to pay engineers to come in to determine what is needed to improve a system," said Tarboro Town Manager Samuel W. Noble Jr., who had served in similar capacities in Granite Falls and Edenton. "But this way we all get a professional evaluation at a very modest cost—a cost that can be returned many times over."

Functions performed by ElectriCities' staff include:

- assisting, as requested by participating towns and cities, in execution of the program, including help in selecting and coordinating the activities of the consulting engineer;
- providing publicity materials to help the municipalities receive maximum public relations benefits;
- follow-up work to assure that the program meets with the members' satisfaction and that anticipated benefits are, in fact, occurring, and to determine whether changes in the program are needed;
- administering the paperwork and accounting for the financing of selected system improvements, if an alternative financing plan arranged by ElectriCities is selected by the city.

1st YEAR SAVING



The presentation convinced council members, 'for the first time in years,' not to increase the rate of transfer from the electricity fund to the general fund.

Since cities have to bear their own improvement costs, the financing plan was arranged to make it easy for ElectriCities members to acquire low-cost loans in the event they do not have funds budgeted to implement recommended projects. A line of credit established at North Carolina National Bank initially provided \$500,000 from which participating municipalities can borrow.

"Money borrowed using this line of credit qualifies as revenue bonds," said William H. Batt, ElectriCities director of finance and administration. "This means that, unlike general obligation bonds, they do not have to be submitted to a voter referendum."

Commitment fees to keep the line of credit available are to be paid from the project fund. Any borrowing under the line of credit is to be directly between the municipality and the bank. The line of credit agreement provides that the negotiated interest rate may be either floating—related to the prime rate—or fixed.

Smithfield moved quickly to take advantage of this special financing option. It borrowed \$374,000 to pay for converting from 4-kV circuits to the newer, more efficient 12-kV. Consulting engineers estimated total savings from the conversions will be more than \$250,000 per year, with the entire cost of the project amortized in less than three years.

Most of the cities that implemented projects quickly did so without borrowing. Batt said several others are considering using the line of credit.

"In some cases cities did not get their final reports from the engineers until after they had completed work on their 1987-88 budgets," he said. "Some are looking at the loan fund as a way to go ahead with system betterment projects rather than having to wait for the next budget cycle."

After making their on-site visits, the consultants developed preliminary reports. After ElectriCities staff reviewed and commented on them, final reports were drawn up and delivered to the cities. Then it was up to each utility staff and city administration to determine the recommendations they would take to the municipality's governing council or board.

At the invitation of city officials, Elec-

triCities staff members often joined representatives of the engineering consulting firms in explaining the program and recommending improvements to the governing board. In some instances, this has been a major factor in winning acceptance for the projects.

"A big thing as far as Tarboro was concerned was the help we got from Steve Shelton of ElectriCities and Greg Booth from Booth & Associates in making a presentation to our Town Council at a retreat," said Noble. Council members saw rate comparisons with other municipal electric systems and nearby IOUs. They were convinced, Noble said, that there was a need to make the town's rates more competitive and to avoid an increase in the rate of transfers from the electricity fund to the general fund "for the first time in years."

Most of the identified savings would be achieved through projects involving the control of peak demand charges. Included are projects that would manage municipal loads or municipally owned water and sewage pumps during the system peak. Several communities were advised they could realize substantial savings on a long-term basis through residential load management programs that would place controls on water heaters and/or air conditioners during system peaks.

Other recommended projects cover a wide spectrum, with the majority in these categories:

- **Voltage control**—Adjusting distribution voltage over a 3 percent to 5 percent range can cut costs through reduced demand charges. Automatic control is estimated to cost \$4,500 per city. Manual voltage control would not require additional capital expenditures beyond the necessary personnel.

- **Capacitors**—Installation and operation of switched or fixed capacitors reduce power losses that, in turn, reduce the demand portion of a city's wholesale power bill.

- **Circuit conversions**—Upgrading existing distribution circuits—for example, converting from 4-kV to 12-kV—reduces line loss and improves system reliability.

- **Standby generation**—Demand charges can be reduced by using emergency standby generators already in place

rather than purchasing power during system peaks.

- **Streetlighting**—Replacement of mercury vapor streetlights with more economical high-pressure sodium lighting lowers operating costs.

- **Transformers**—Replacement of oversized transformers with properly-sized transformers reduces core and standby losses on under-used transformers.

- **System control and data acquisition (SCADA)**—The installation of a SCADA system can improve system reliability and reduce demand charges, in some cases permitting voltage control.

Program Extended Through '88

This summer the ElectriCities board of directors unanimously decided to extend the system betterment program through 1988. The extended program will focus on these areas:

- **Project selection**—No new projects will be identified using consultant engineers as in the first phase of the program, but members will be assisted in selecting projects to be implemented from among those already identified.

- **Project implementation**—ElectriCities staff will assist and coordinate implementation so each participating member has the opportunity to save from at least one project.

- **Public relations**—ElectriCities staff will continue to assist members in bringing to the public's attention the benefits of municipal power and the commitment to system reliability and efficiency.

In addition, development will begin on an operations review guide that will serve as a yardstick for members in adopting system operation procedures.

This system betterment program has attracted considerable attention in other states. ElectriCities has been asked to make presentations on it to several state, regional and national gatherings of public power officials. One of the program's beauties is its transferability, to organizations ranging in size from a small regional group to a large multistate power authority.

Another important benefit warrants emphasis. This kind of a program helps make governing board members and the public more aware of the vital importance of keeping their municipal electric system in tip-top form. ☀

Editor's note: Persons interested in more information about ElectriCities' system betterment program should call Ken Raber or John Moore, 919/876-9170.

JANUARY-FEBRUARY 1988

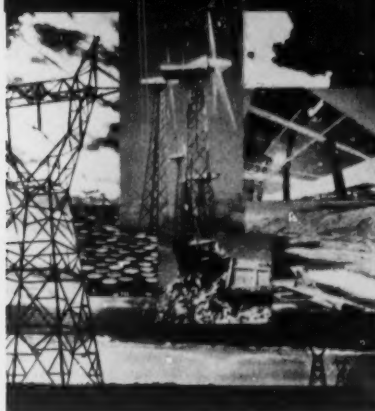
publicpower

A2625-1
2/9/88



22 2 AD 4
Congressional Info. Service
Sri
4520 East-West Highway
Bethesda MD 20814

publicpower



PUBLIC POWER'S pull-out annual Directory begins opposite page 30.



Santee Cooper was among those celebrating the first-ever Public Power Week. See page 38.

January-February 1988
Volume 46, Number 1

publicpower

COLUMNS

- 5 Something to Think About**
by *Larry Hobart*
FERC and states differ in their approaches to changes in the utility industry.
- 60 The Other Side**
by *Vic Reinemer*
Two sentinels keep PUBLIC POWER informed.

MANAGEMENT

- 28 Battling Power Theft**
by *Karl A. Seger*
The silent crime costs consumers up to \$4 billion annually.

SERVICE

- 22 Maine's Powerful Mini Muni**
by *Arthur H. Purcell*
Service has improved in recent years at one of the country's smallest utilities.
- 42 Local Systems Budget \$5.77 Billion for 1988 Plant Work**
Spending projected to increase 12.4 percent this year.

LEGISLATION

- 10 Bond Limits, Rate Relief Among Legislative Challenges**
by *Deborah Sliz*
Attempt to limit financing, create rate equity among issues facing public power last year.
- 19 Correcting Rate Defects**
Public power supporter Rep. Terry Bruce discusses fairness, communicating with Congress.

EDUCATION

- 36 Education Courses Expanded, Updated**
by *Toni Clark*
Overcome work blues with fresh ideas from utility education courses.

DIRECTORY

PUBLIC POWER's annual Directory, including charts depicting historical relationships among public, private, cooperative and federal power systems, begins opposite page 30.

APPA

- 38 Creativity, Variety Hail Public Power Week**
by *Pat Logie*
More than 500 communities participated in the coast-to-coast celebration.
- 59 Inside APPA**
by *Jennifer Sacks*
Engineering and Operations Workshop March 14-17; committee chairs named; Annual Report Contest winners announced.

TECHNOLOGY

- 58 Innovation Update**
by *Larry Bruneel*
Milford, Del., saves with cable; equal routes in Lakeland, Fla.; no more outages in Ontario.

DEPARTMENTS

- 49 Books**
55 APPA Papers
56 Meetings
57 Ad Index

publicpower

Editorial and advertising offices:
2301 M Street N.W.
Washington, D.C. 20037
(202) 775-8300 (all departments)

PUBLIC POWER, issued bimonthly, is the official publication of the American Public Power Association. Opinions expressed in signed articles are not necessarily APPA policies. For permission to reprint articles, write or call the publisher.

Editor and publisher
Vic Reinemer
Managing editor
Lori Woehrle
Secretary/directory assistant
Margaret Winfough

Advertising manager
W.E. (Trez) Lee
Assistant advertising manager
Peggy Douglas
Circulation manager
Margaret Winfough
Classified advertising manager
Julie Parsley

Staff contributors
Ralph Allen
Karen Anderson
Michael K. Bergman
Larry Bruneel
Madalyn Cafruny
Toni Clark
Paul Fry
Cindy Gaskill
Anne Marie Gibbons
Ruth Gonze
Larry Hobart
Marty Kanner
John Kelly
Jill Kunka
Jeanne Wickline LaBella
Dan Lewis
Pat Logie
Lawrence Mansueti
Nancy Mooney
Debbie Nuttall
Eileen Peerless
Alan H. Richardson
Gordon Roberts
Jennifer Sacks
Deborah Sliz
Randy Swisher
Jeff Tarbert

Consulting designer
Leckie/Lehmann

Subscription rate: \$35 per year, single copy \$5; January-February Directory issue: \$40 (\$20 to APPA members).
Second-class circulation postage paid at Washington, D.C.; USPS-449-420



VBPA



AMERICAN PUBLIC POWER ASSOCIATION

2301 M St. N.W., Washington, D.C. 20037 (202) 775-8300

The American Public Power Association (APPA) is a national service organization representing more than 1,750 local publicly owned electric utilities throughout the country.

OFFICERS 1987-88

JOE EXUM, *president*
WALTER A. CANNEY, *president-elect*
WILLIAM C. MESCHER, *vice-president*
C.M. PERKINS, *treasurer*
LARRY HOBART, *executive director*

DIRECTORS

JAMES A. BAUER, *general manager*, Piedmont Municipal Power Agency, Greer, S.C.
JOSEPH BLAIN†, *manager*, Municipal Lighting Plant, Taunton, Mass.
RONALD W. BOLES, *board chairman*, Huntsville Utilities, Huntsville, Ala.
WALTER A. CANNEY, *administrator*, Lincoln Electric System, Lincoln, Neb.
BILL D. CARNAHAN†, *public utilities director*, Riverside, Cal.
DON COLLETTE, *general manager*, McMinnville Electric System, McMinnville, Tenn.
GERALD COPP, *manager*, Public Utility District No. 1 of Chelan County, Wenatchee, Wash.
E. LEON DAGGETT, *director of utilities*, Hamilton, Ohio
MOLLY DARWIN, *councilmember*, Morganton, N.C.
R. HARRY DAWSON, *general manager*, Oklahoma Municipal Power Authority, Edmond, Okla.
DWIGHT DAY¹, *board member*, Utah Associated Municipal Power Systems, Salt Lake City, Utah
JOE EXUM, *general manager*, Jackson Utility Division, Jackson, Tenn.
ERNEST GEDDES, *general manager*, Turlock Irrigation District, Turlock, Cal.
GILBERT E. HANSON JR., *general manager*, Kansas Municipal Energy Agency, Mission, Kan.
RANDALL W. HARDY†, *superintendent*, Seattle City Light, Seattle, Wash.
RICHARD HORKINS, *chairman*, Toronto Hydro Electric System, Toronto, Ontario

EDWIN C. HOSKINS, *general manager*, Knoxville Utilities Board, Knoxville, Tenn.
EARL LAMAACK, *board of directors*, Missouri Basin Municipal Power Agency, Alexandria, Minn.
STEVE LOVELAND, *Springfield Utility Board*, Springfield, Ore.
ROYCE LYLES, *managing director*, Jacksonville Electric Authority, Jacksonville, Fla.
CAROLYN S. MCNEIL†², *general manager*, Utah Associated Municipal Power Systems, Sandy, Utah
WILLIAM C. MESCHER, *president*, Santee-Cooper, Moncks Corner, S.C.
TIM MORAWSKI, *general manager*, Board of Public Works, Holland, Mich.
BOB NELSON†, *utilities director*, Denton Electric Light & Power, Denton, Texas
NORMAN NICHOLS, *assistant general manager*, Department of Water & Power, Los Angeles, Cal.
REECE D. NIELSEN, *chairman, board of directors*, Intermountain Power Agency, Hyrum, Utah
PAUL W. OSLER, *executive director*, Indiana Municipal Electric Association, Carmel, Ind.
DAVE PENN, *general manager*, Wisconsin Public Power Inc. System, Sun Prairie, Wis.
C.M. PERKINS, *assistant general manager/financial services*, Salt River Project, Phoenix, Ariz.
CHARLES F. ROSSOLL, *chief engineer/assistant general manager*, Department of Public Utilities, Norwich, Conn.
ROBERT E. ROUNDTREE†, *general manager*, City Utilities, Springfield, Mo.
DON E. SCHAUFELBERGER, *president and chief executive officer*, Nebraska Public Power District, Columbus, Neb.
E.C. SHREVE JR., *executive vice president*, Florida Municipal Utilities Association, Tallahassee, Fla.
DONALD L. STOKLEY, *general manager*, Municipal Electric Authority of Georgia, Atlanta, Ga.
WILLIAM G. TOBIN, *manager*, Rock Rapids Utilities, Rock Rapids, Iowa
ROBERT VAISEY, *general manager*, Fairport Municipal Commission, Fairport, N.Y.

† Executive Committee member
¹ Represents Policy Boards Advisory Council
² Represents Advisory Committee

D-2 About the Directory

STATISTICS D-3 U.S. Electric Utility Statistics

D-4 20 Largest State and Local Publicly Owned Electric Systems—Electric Customers Served, Net Electric Plant, kWh Sales, Electric Revenues

CHARTS D-5 Electricity's Average Cost per kWh 1946-1985 Number of Electric Systems, by Ownership 1890-1987

D-6 Installed Utility Generating Capacity, by Ownership 1898-1986
Kilowatt-hours Generated by Utilities, by Ownership 1902-1986
Kilowatt-hour Sales to Ultimate Customers 1917-1986

D-7 Electric Utility Operating Revenues 1937-1986
Number of Ultimate Electric Utility Customers 1917-1986

D-8 Net Electric Utility Plant 1946-1986
Expenditures by Local Systems for Generation, Transmission and Distribution 1971-1987

D-9 Cost of Production per kWh Sold, Public and Private Utilities 1969-1985
Cost of Transmission per kWh Sold, Public and Private Utilities 1969-1985
Distribution Expenses per kWh Sold, Public and Private Utilities 1969-1985
Administrative and General Expenses per kWh Sold, Public and Private Utilities 1969-1985

D-10 Accounting and Collection Expenses per kWh, Public and Private Utilities 1969-1985
Customer Service, Information and Sales Expenses per kWh,
Public and Private Utilities 1969-1985
Installed Generating Capacity of Public Power Systems by Type of Fuel, 1983-1986

LOCAL PUBLICLY OWNED UTILITIES

D-11 Ala., Alaska	D-27 La., Maine	D-52 Ore.
D-12 Ariz.	D-29 Md., Mass.	D-53 Pa., R.I., S.C.
D-13 Ark., Cal.	D-30 Mich.	D-54 S.D.
D-14 Colo.	D-31 Minn.	D-55 Tenn.
D-15 Conn., Del., Fla.	D-33 Miss.	D-56 Texas
D-16 Ga.	D-34 Mo.	D-60 Utah
D-17 Idaho, Ill.	D-37 Mont., Neb.	D-61 Vt., Va., Wash.
D-18 Ind.	D-41 Nev.	D-62 W. Va., Wis.
D-21 Iowa	D-42 N.H., N.J., N.M., N.Y.	D-64 Wyo.
D-24 Kan.	D-43 N.C.	D-65 American Samoa, Canal Zone, Guam, Puerto Rico, Virgin Islands
D-26 Ky.	D-49 N.D., Ohio	
	D-51 Okla.	

ORGANIZATIONS OF LOCAL PUBLICLY OWNED UTILITIES

D-66 Joint-Action Agencies
D-69 National, Regional Associations
D-71 State Associations

OTHER LISTINGS D-72 Federal Power Agencies

D-76 Major Canadian Electric Utilities

APPA CO-OP, ASSOCIATE AND OTHER MEMBERS

D-78 Electric Cooperatives, Corporate Associates
D-81 Individual Associates
D-83 Other Members
D-84 Publicly Owned Cable Communication Systems

INDEX D-88 PUBLIC POWER Magazine Index, 1987

This Directory is part of PUBLIC POWER, the bimonthly publication of the American Public Power Association, 2301 M St. N.W., Washington, D.C. 20037; 202/775-8300. Copies of the directory are available, from the APPA publications department, for \$20 to APPA members, or \$40 to nonmembers. Write or call PUBLIC POWER to subscribe to the magazine (\$35 a year).

About the Directory . . .

THE PUBLIC POWER DIRECTORY, published annually, includes information about 2,203 local publicly owned electric systems in the United States, organizations of these utilities, federal power agencies, major Canadian electric utilities, publicly owned cable communication systems, identity of APPA members and associate members, and statistics and charts comparing the public, cooperative and private sectors of the electric power industry. The directory includes an index, by author and subject, of articles published in PUBLIC POWER during 1987. Book reviews are also listed.

Included in the directory are: municipal electric systems; public utility districts; people's utility districts; public power districts; other types of state and county electric systems; organizations which include local publicly owned electric systems; and federal power agencies. *Not included* in the directory are: private electric power companies and—except for APPA members—rural electric cooperatives.

Listings include the following information where available: name of utility; address, including mailing zip code; telephone number, including area code and local number; chief executive officer, usually superintendent (supt.) or manager (mgr.); number of meters (met.) served; generation (gen.) by type, including steam, gas turbine, internal combustion engine (eng.), hydroelectric (hydro) in kilowatts (kW) or megawatts (MW) of capacity, usually nameplate ratings, and total generation for the latest available year in kilowatt-hours (kWh); power purchased (pur.) at wholesale or sold—for latest full year, either calendar or fiscal—in kilowatt-hours; annual electric revenues (rev.) for the latest available year; and year the system was established. A small seven (7) at the end of an entry means the principal data therein was obtained in 1987. A small six (6) means the principal data was obtained in 1986. A small five (5) means the principal data was obtained in 1985. An asterisk (*) denotes APPA membership. A dagger (†) denotes membership in the DEED (Demonstration of Energy-Efficient Developments) program.

Local publicly owned electric utilities are listed alphabetically by state. Municipal systems are listed by the name of the city. Other types of local public power systems—public utility districts, people's utility districts, public power districts and other electric systems owned by units of local or state government—are listed alphabetically by the name of the utility. Public utility districts are usually shown by the name of the county served.

The directory lists local publicly owned electric utilities in 49 states, the Canal Zone, Puerto Rico, Virgin Islands, Guam and American Samoa. There are no local public systems in Hawaii.

Nebraska, the only state in which all electric utility service is consumer-owned—provided by either public or cooperative systems—leads the nation with 156 local publicly owned utilities. In addition 210 communities in Nebraska own municipal electric systems that are operated under lease agreements by Nebraska Public Power District; 22 communities lease their municipal electric utilities to Loup River Public Power District; and nine communities lease to other Nebraska systems. Thus the state has a total of 397 local publicly owned electric utilities.

Other leading states in numbers of local, publicly owned systems are: Iowa, 138; Kansas, 124; Minnesota, 124; Ohio, 83; Missouri, 83; Wisconsin, 82; Texas, 77; North Carolina 72; Indiana, 72; Oklahoma, 65; and Tennessee, 63.

All state totals are listed in the adjacent column. The table shows that four states have more than 100 local publicly owned electric utilities, and 14 states have 50 or more local publicly owned power systems.

This is PUBLIC POWER's 27th annual directory. Changes from the previous directories, including the numbers of systems shown for several states and the national total, reflect corrections from the earlier listings as well as changes during the past year.

Although PUBLIC POWER is responsible for the directory, the editors acknowledge with gratitude the many sources of information that have made it possible to compile the most accurate listing of local publicly owned utilities ever published.

These sources include hundreds of local publicly owned utilities which submitted information to PUBLIC POWER on a survey form; records and files of the American Public Power Association, the national service organization of the local publicly owned electric utilities; officials of regional and state associations, joint-action agencies and the federal government; and many individual officials of public power systems and the APPA staff.

Additions and corrections to be included in the next directory should be sent to PUBLIC POWER Directory, 2301 M St. N.W., Washington, D.C. 20037; 202/775-8300.

Local publicly owned electric utilities

State	number
Alabama	36
Alaska	22
Arizona	23
Arkansas	15
California	42
Colorado	29
Connecticut	6
Delaware	9
Florida	33
Georgia	52
Hawaii	0
Idaho	11
Illinois	41
Indiana	72
Iowa	138
Kansas	124
Kentucky	30
Louisiana	22
Maine	7
Maryland	5
Massachusetts	40
Michigan	41
Minnesota	124
Mississippi	23
Missouri	83
Montana	3
Nebraska	397
Nevada	8
New Hampshire	5
New Jersey	9
New Mexico	7
New York	50
North Carolina	72
North Dakota	12
Ohio	83
Oklahoma	65
Oregon	17
Pennsylvania	35
Rhode Island	1
South Carolina	22
South Dakota	36
Tennessee	63
Texas	77
Utah	38
Vermont	15
Virginia	17
Washington	42
West Virginia	2
Wisconsin	82
Wyoming	12
American Samoa	1
Canal Zone	1
Guam	1
Puerto Rico	1
Virgin Islands	1
Total	2,203

U.S. ELECTRIC UTILITY STATISTICS

Local public system statistics are from the American Public Power Association. Private company figures are from the Energy Information Administration. Rural electric data are from the Rural Electrification Administration. Federal power statistics are compiled from annual reports of the federal power marketing agencies and data reported to APPA.

NUMBER OF SYSTEMS

Major private power companies	190
Nonmajor private power companies	23
Local publicly owned systems, including municipals, public utility districts and state and county systems	2,203
Publicly owned joint-action agencies	59
Rural electrics (including 865 distribution co-ops and 59 generation and transmission co-ops)	924
Federal power agencies	13
TOTAL	3,412

		1986	1986 %	1985	1985 %
NUMBER OF CUSTOMERS	Local public systems	14,027,526	13.6	13,725,564	13.6
	Private	77,672,000	75.4	75,778,000	75.3
	REA borrowers	11,357,105	11.0	11,110,158	11.0
	Federal	15,306	0.01	14,960	0.01
	TOTAL	103,071,937	100.0	100,628,682	100.0
KWH SALES (to ultimate customers, in millions of kWh)	Local public systems	354,661	15.1	336,810	14.5
	Private	1,787,000	75.8	1,769,370	76.0
	REA borrowers	172,965	7.3	170,154	7.3
	Federal	41,427	1.8	51,273	2.2
	TOTAL	2,356,053	100.0	2,327,607	100.0
ELECTRIC OPERATING REVENUES (in thousands of dollars, to all customers)	Local public systems	\$ 21,684,854	11.7	\$ 21,259,661	11.6
	Private	135,808,804	73.6	135,267,733	73.5
	REA borrowers	19,942,767	10.8	19,192,639	10.4
	Federal	7,182,553	3.9	8,255,185	4.5
	TOTAL	\$184,618,978	100.0	\$183,975,218	100.0
NET ELECTRIC PLANT INVESTMENT (in thousands of dollars; does not include nuclear fuel)	Local public systems	\$ 49,969,933	11.0	\$ 52,599,930	12.2
	Private	330,499,703	72.9	311,792,173	72.1
	REA borrowers	44,566,146	9.8	42,608,147	9.9
	Federal	28,329,219	6.2	25,447,010	5.9
	TOTAL	\$453,365,001	100.0	\$432,447,260	100.0
INSTALLED CAPACITY* (in thousands of kW)	Local public systems	70,744	10.2	70,044	10.2
	Private	535,709	76.9	530,405	77.0
	REA borrowers	26,098	3.7	24,574	3.6
	Federal	64,028	9.2	63,710	9.3
	TOTAL	696,579	100.0	688,733	100.0
KWH GENERATION* (in millions of kWh)	Local public systems	212,528	8.5	210,424	8.5
	Private	1,937,212	77.0	1,918,032	77.3
	REA borrowers	120,832	4.8	120,373 ^r	4.9
	Federal	244,075	9.7	233,063	9.4
	TOTAL	2,514,647	100.0	2,481,892	100.0

^r—revised

NOTE: Data are based on APPA and Energy Information Administration data.

*Data on installed capacity and kWh generation are based on U.S. Department of Energy and are not comparable to data published here for these series for years before 1984.

20 LARGEST STATE & LOCAL PUBLICLY OWNED ELECTRIC SYSTEMS

ELECTRIC CUSTOMERS SERVED—1986

1. Los Angeles (Cal.) Department of Water and Power	1,268,399
2. Puerto Rico Electric Power Authority*	1,083,310
3. Salt River Project, Phoenix, Ariz.*	473,570
4. San Antonio (Texas) City Public Service Board	453,146
5. Sacramento (Cal.) Municipal Utility District	392,546
6. Memphis (Tenn.) Light, Gas and Water Division	332,344
7. Seattle (Wash.) City Light	306,049
8. Jacksonville (Fla.) Electric Authority*	264,364
9. Austin (Texas) Electric Authority*	251,022
10. Nashville (Tenn.) Electric Service*	247,934
11. Omaha (Neb.) Public Power District	233,649
12. Snohomish County Public Utility District, Everett, Wash.	171,098
13. Colorado Springs (Colo.) Department of Public Utilities	139,241
14. Knoxville (Tenn.) Utilities Board	135,047
15. Chattanooga (Tenn.) Electric Power Board	132,722
16. Orlando (Fla.) Utilities Commission*	128,660
17. Tacoma (Wash.) City Light	116,987
18. Nebraska Public Power District, Columbus, Neb.	107,019
19. Huntsville (Ala.) Utilities	95,238
20. Anaheim, City of, Cal.	93,568

KWH SALES—1986

1. New York Power Authority	47,078,681,000
2. Los Angeles (Cal.) Department of Water and Power	20,681,866,000
3. Salt River Project, Phoenix, Ariz.*	15,566,000,000
4. South Carolina Public Service Authority*	10,778,640,000
5. Puerto Rico Electric Power Authority*	10,647,898,000
6. San Antonio (Texas) City Public Service Board	10,369,811,000
7. Memphis (Tenn.) Light, Gas and Water Division	9,895,380,000
8. Nashville (Tenn.) Electric Service*	9,094,195,000
9. Nebraska Public Power District, Columbus, Neb.	8,886,626,000
10. Grant County Public Utility District No. 2, Ephrata, Wash.	8,303,887,000
11. Seattle (Wash.) City Light	8,231,088,000
12. Sacramento (Cal.) Municipal Utility District	7,014,936,000
13. Lower Colorado River Authority, Austin, Texas	6,799,539,000
14. Jacksonville (Fla.) Electric Authority*	6,770,745,000
15. Omaha (Neb.) Public Power District	6,199,627,000
16. Austin (Texas) Electric Utility*	5,806,118,000
17. Municipal Electric Authority of Georgia	5,676,429,000
18. Tacoma (Wash.) City Light	5,641,696,000
19. North Carolina Eastern Municipal Power Agency	4,973,543,204
20. Chattanooga (Tenn.) Electric Power Board	4,880,765,000

*Fiscal year not coincident with calendar year.

NET ELECTRIC PLANT—1986

1. Salt River Project, Phoenix, Ariz.*	\$2,855,429,134
2. Los Angeles (Cal.) Department of Water and Power	2,684,551,000
3. New York Power Authority	2,393,719,000
4. Municipal Electric Authority of Georgia	1,698,866,000
5. South Carolina Public Service Authority*	1,666,293,722
6. Puerto Rico Electric Power Authority*†	1,578,662,000
7. Sacramento (Cal.) Municipal Utility District	1,478,801,000
8. North Carolina Eastern Municipal Power Agency	1,407,195,000
9. Nebraska Public Power District, Columbus, Neb.	1,379,312,000
10. Omaha (Neb.) Public Power District	912,589,673
11. Massachusetts Municipal Wholesale Electric Co.	898,193,000
12. California Department of Water Resources	890,997,000
13. San Antonio (Texas) City Public Service Board	837,021,230
14. Texas Municipal Power Agency*	690,762,000
15. Platte River Power Authority, Fort Collins, Colo.	647,816,497
16. Chelan County Public Utility District, Wenatchee, Wash.	644,397,991
17. Grand River Dam Authority, Vinita, Okla.	608,045,385
18. Lower Colorado River Authority, Austin, Texas	586,974,775
19. Jacksonville (Fla.) Electric Authority*	582,269,613
20. Piedmont Municipal Power Authority, Greer, S.C.	529,047,000

ELECTRIC REVENUES—1986

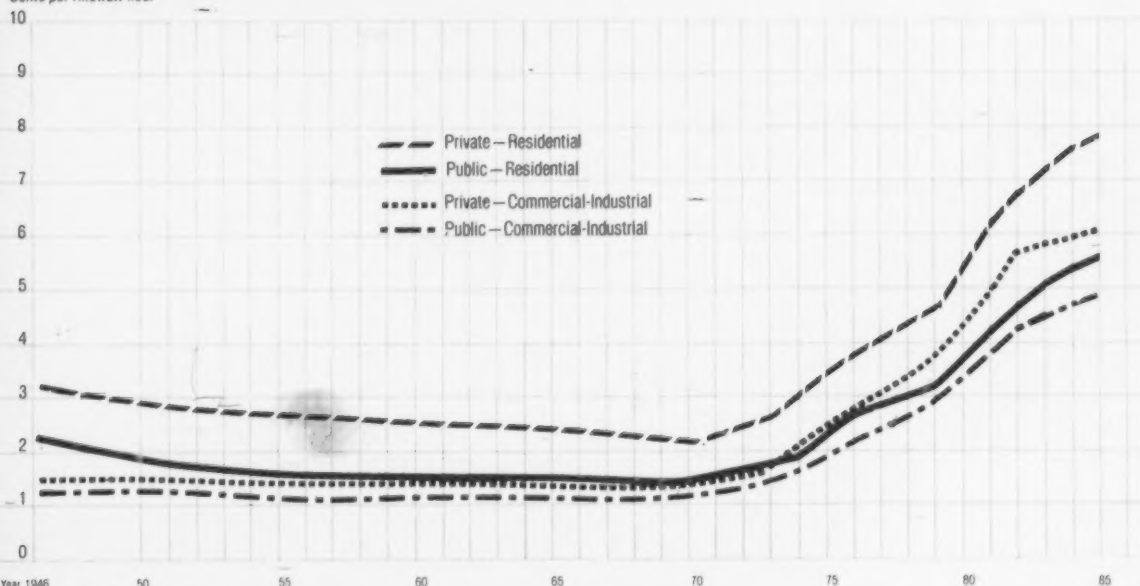
1. Los Angeles (Cal.) Department of Water and Power	\$1,455,343,794
2. New York Power Authority	1,135,446,642
3. Salt River Project, Phoenix, Ariz.*	874,430,738
4. Puerto Rico Electric Power Authority*	860,410,000
5. San Antonio (Texas) City Public Service Board	636,465,280
6. Memphis (Tenn.) Light, Gas and Water Division	493,545,892
7. Nashville (Tenn.) Electric Service*	481,638,205
8. Jacksonville (Fla.) Electric Authority*	475,845,093
9. South Carolina Public Service Authority*	451,536,989
10. Austin (Texas) Electric Utility*	398,152,442
11. Sacramento (Cal.) Municipal Utility District	397,920,000
12. Municipal Electric Authority of Georgia	349,627,000
13. Nebraska Public Power District, Columbus, Neb.	333,741,344
14. Omaha (Neb.) Public Power District	307,249,075
15. Chattanooga (Tenn.) Electric Power Board	254,973,651
16. North Carolina Eastern Municipal Power Agency	248,293,000
17. Seattle (Wash.) City Light	239,840,854
18. Lower Colorado River Authority, Austin, Texas	232,503,000
19. Knoxville (Tenn.) Utilities Board	214,651,342
20. Orlando (Fla.) Utilities Commission	187,997,046

† 1985 data

Sources: Annual reports and data reported to APPA.

1. Electricity's Average Cost per kWh 1946- 1985 Public (local) and Private Power Systems

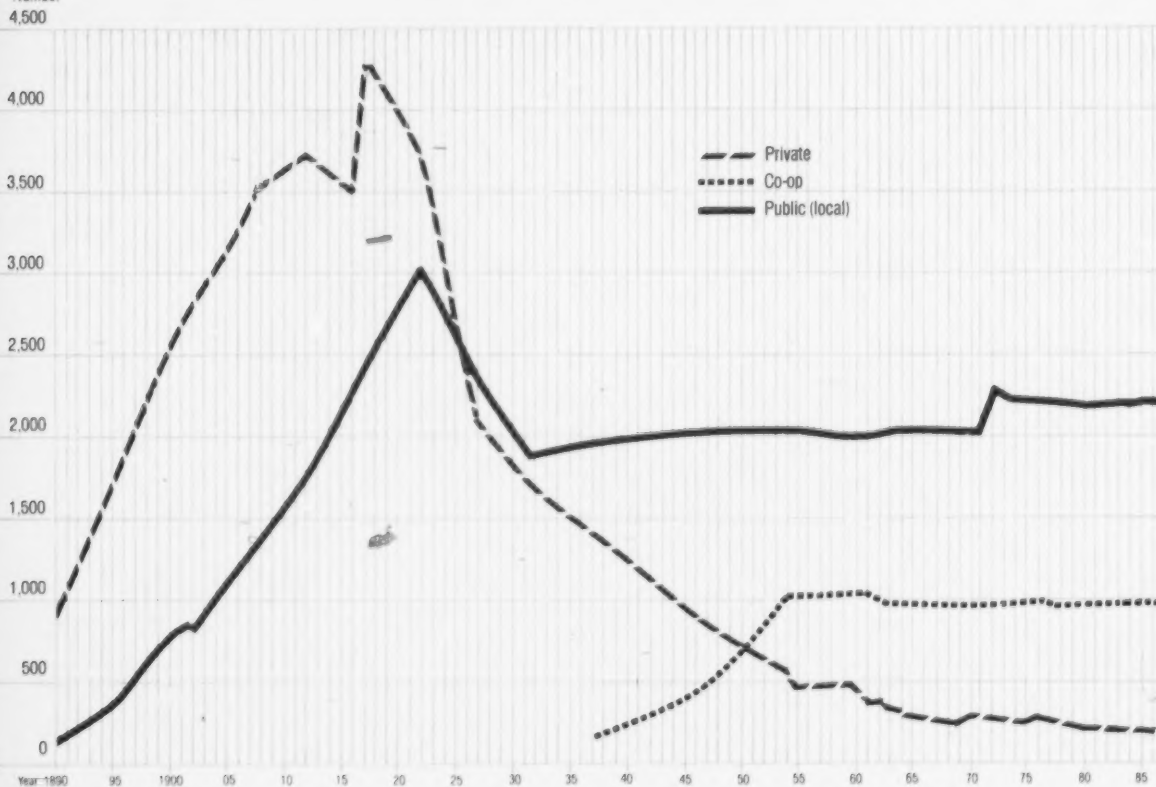
Cents per Kilowatt-hour



Sources: Energy Information Administration, 1976-1982; Federal Power Commission, 1946-1975.

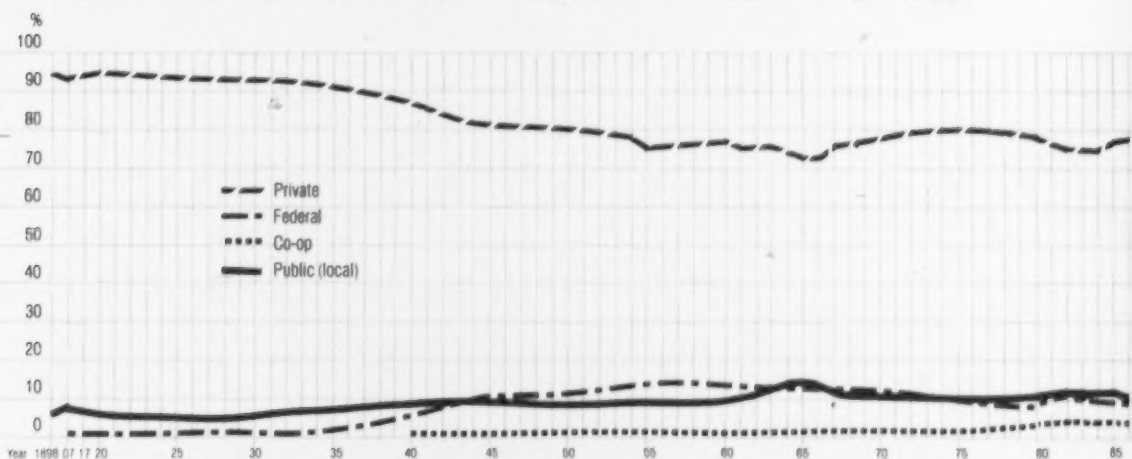
2. Number of Electric Systems, by Ownership 1890- 1987

Number

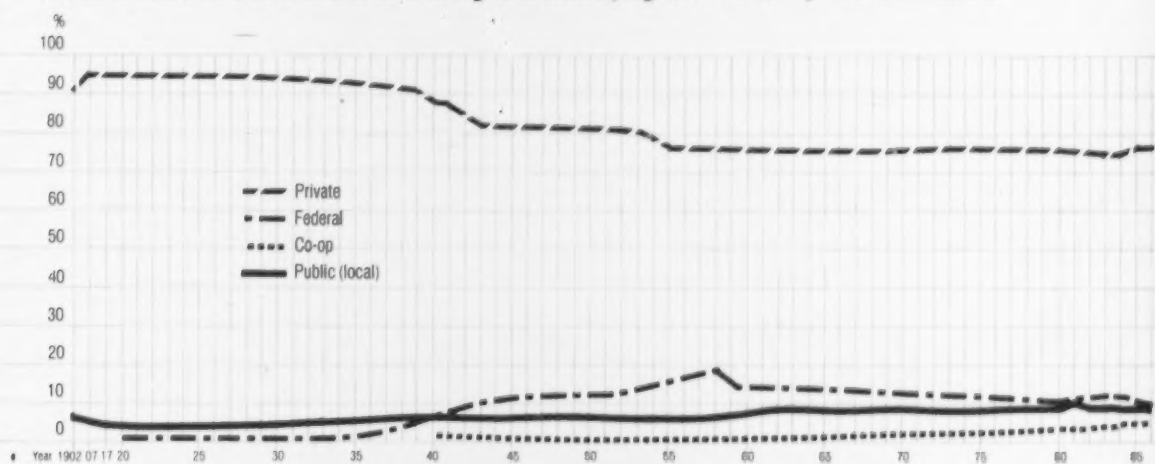


Note: Public systems include municipals, public utility districts and state power authorities, and exclude joint-action agencies and federal agencies.

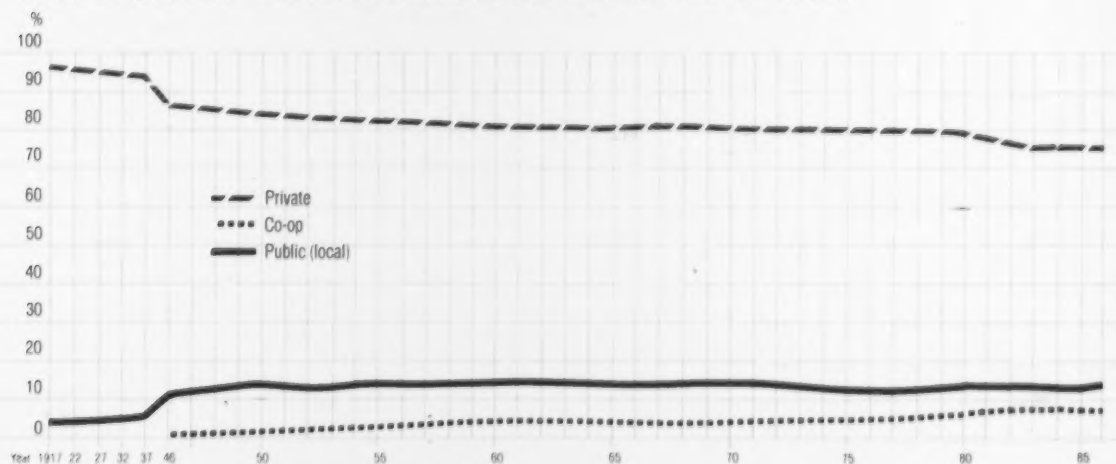
3. Installed Utility Generating Capacity, by Ownership 1898- 1986



4. Kilowatt-hours Generated by Utilities, by Ownership 1902- 1986



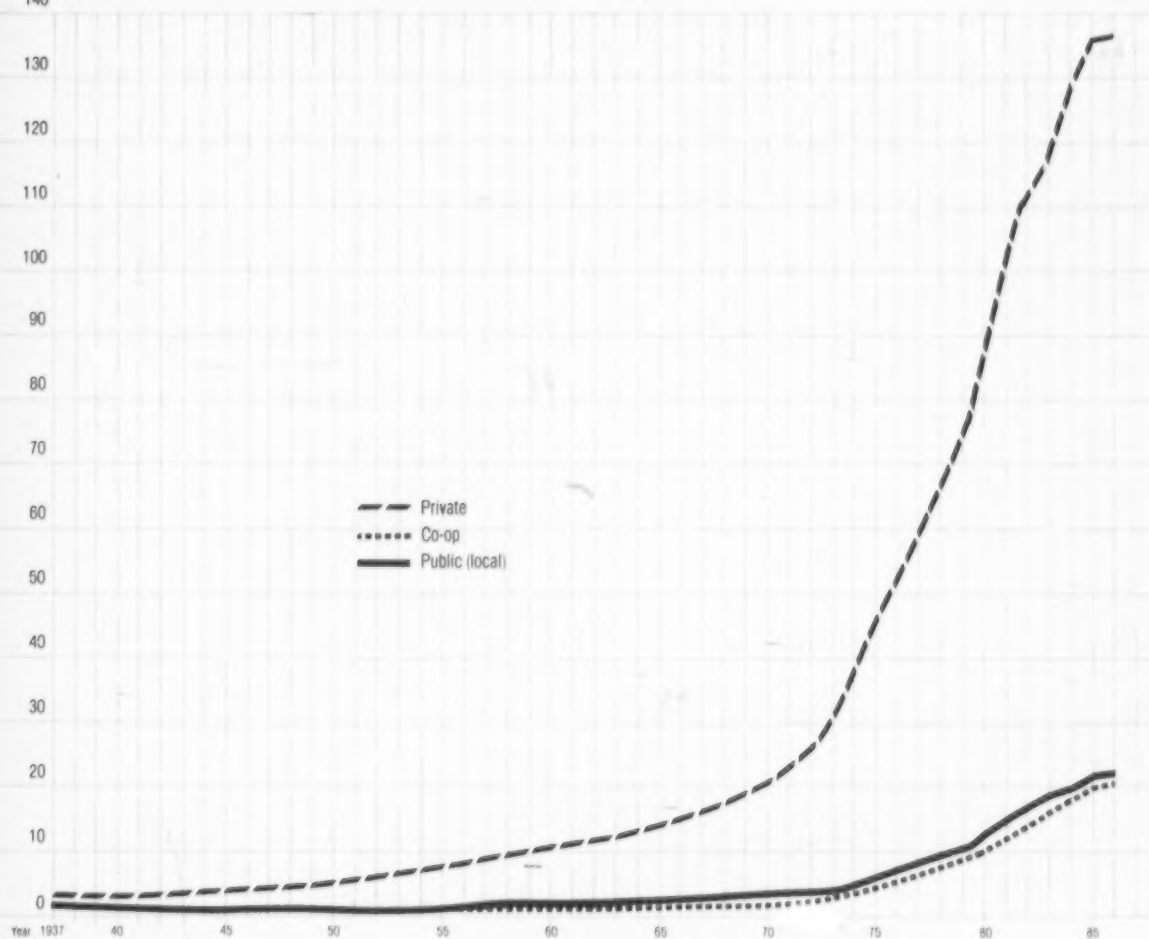
5. Kilowatt-hour Sales to Ultimate Customers 1917- 1986



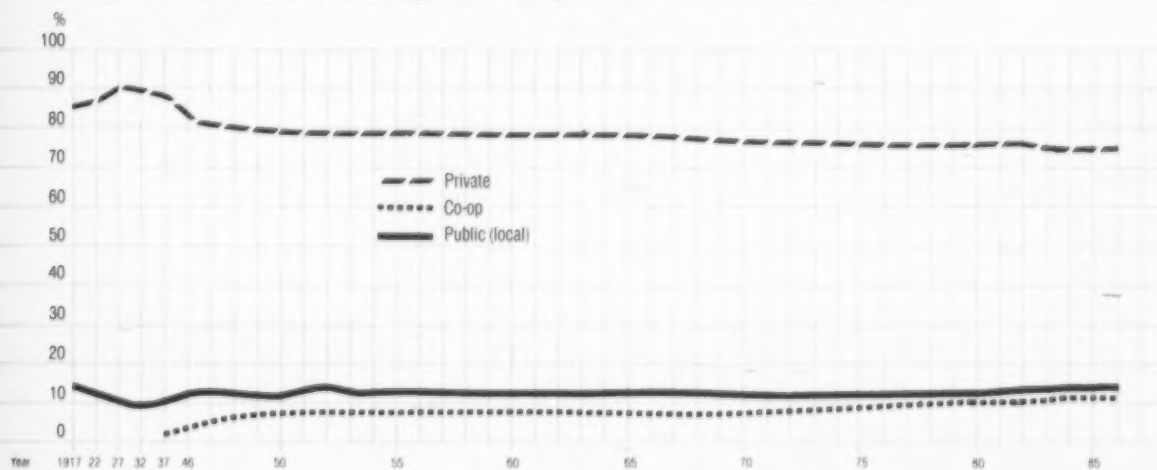
Notes: Sales for resale are included; sales from federal projects are excluded

6. Electric Utility Operating Revenues 1937- 1986

Billions of dollars
140

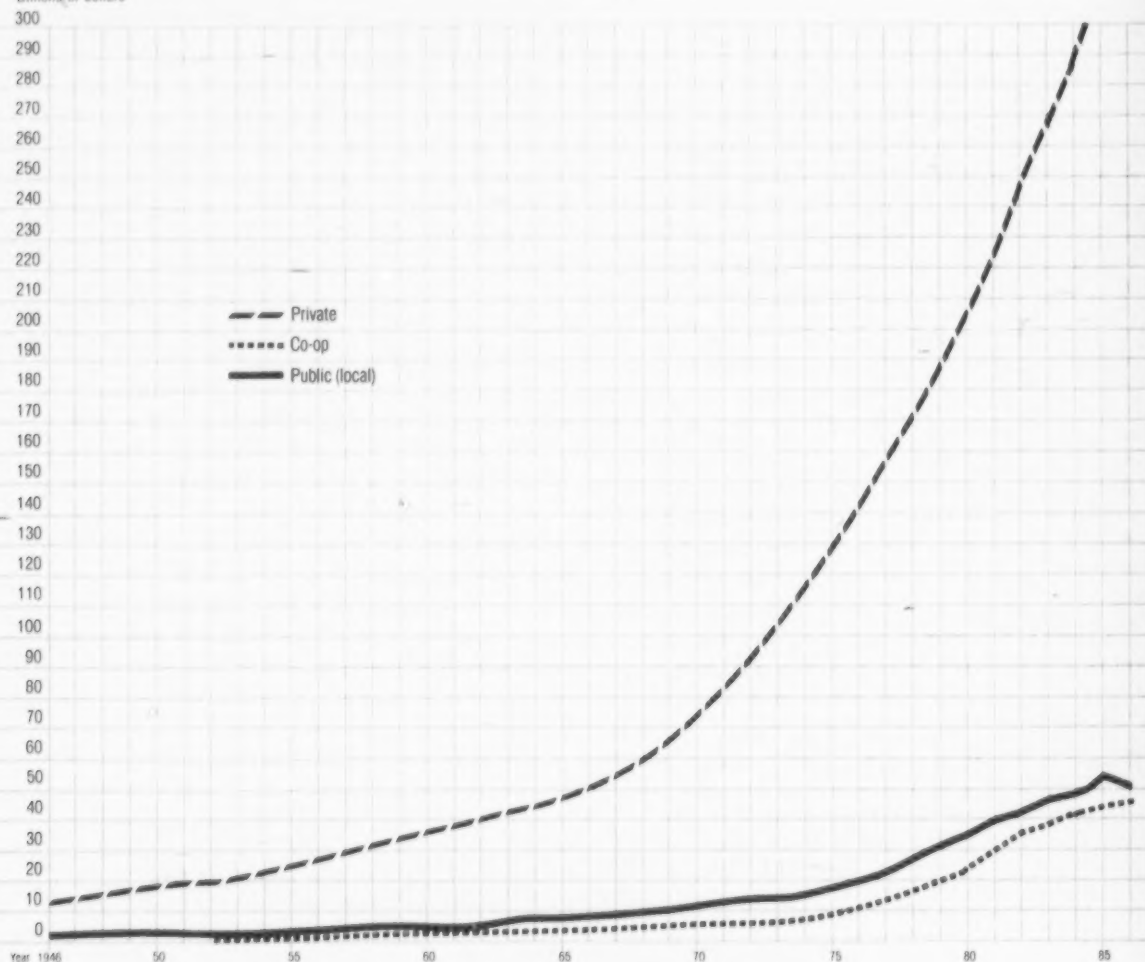


7. Number of Ultimate Electric Utility Customers 1917- 1986

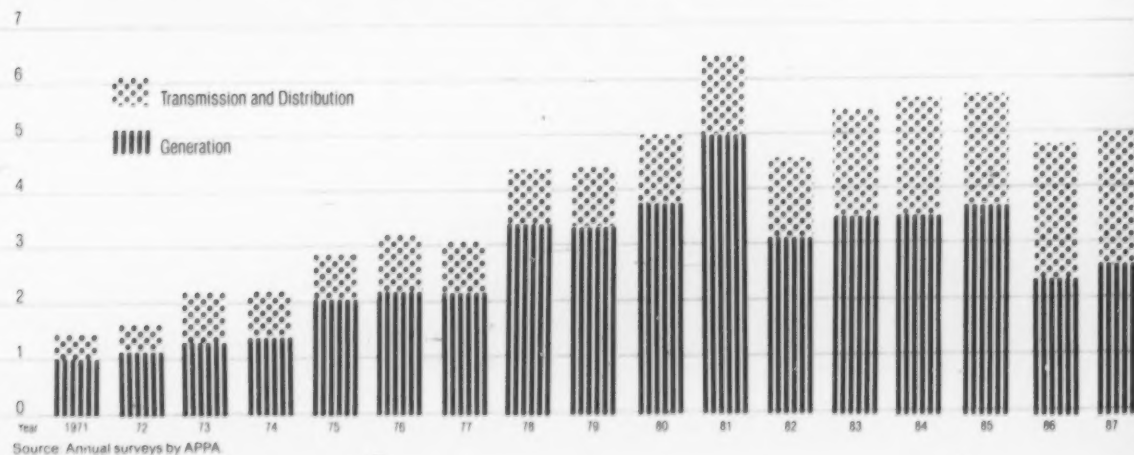


8. Net Electric Utility Plant 1946- 1986

Billions of dollars



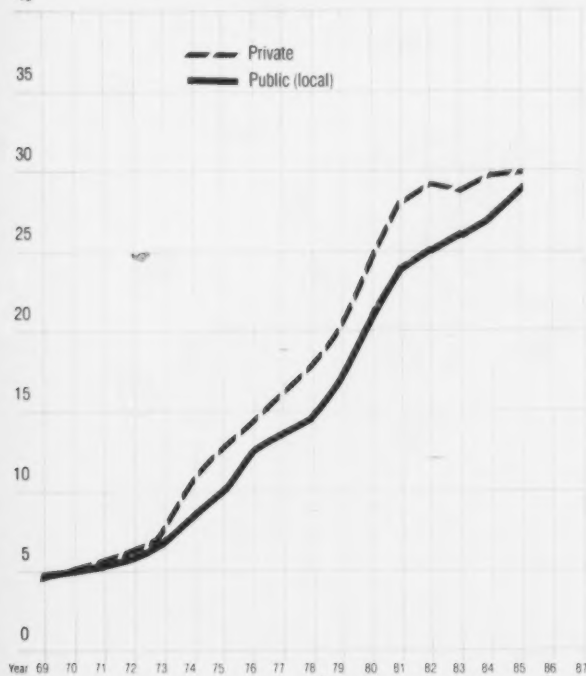
9. Annual Expenditures by Local Public Power Systems for Generation, Transmission and Distribution 1971- 1987



Source: Annual surveys by APPA

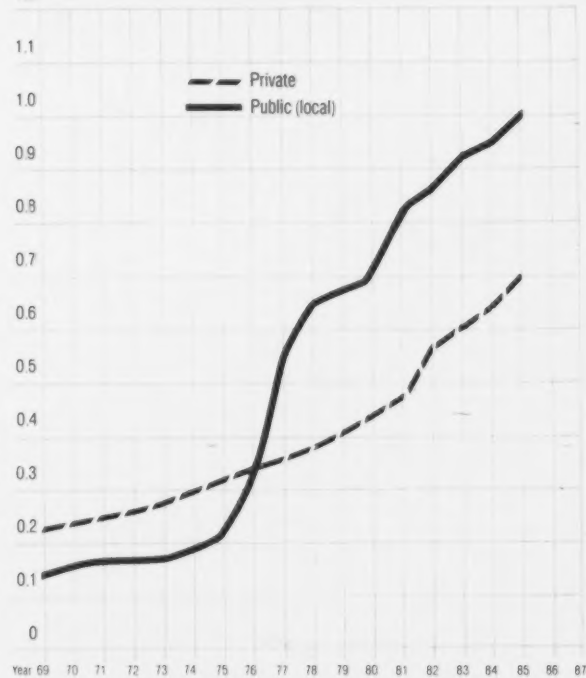
10. Cost of Production per kWh sold, public and private utilities 1969-1985

Mills per kWh
40



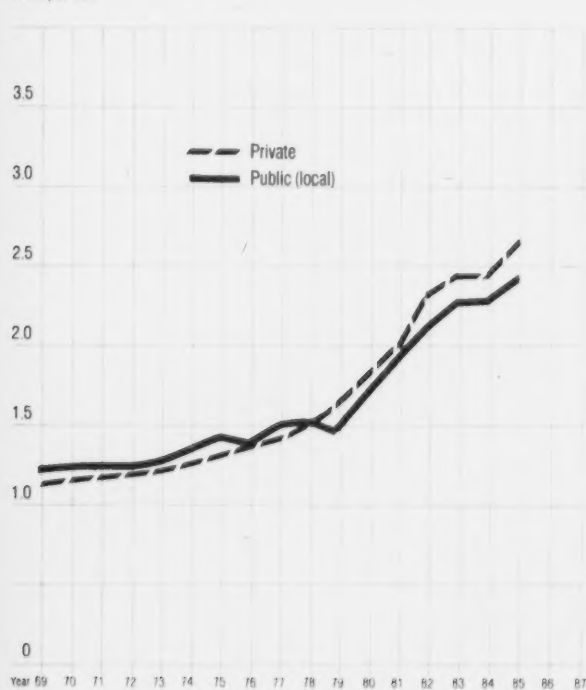
11. Cost of Transmission per kWh sold, public and private utilities 1969-1985

Mills per kWh
1.2



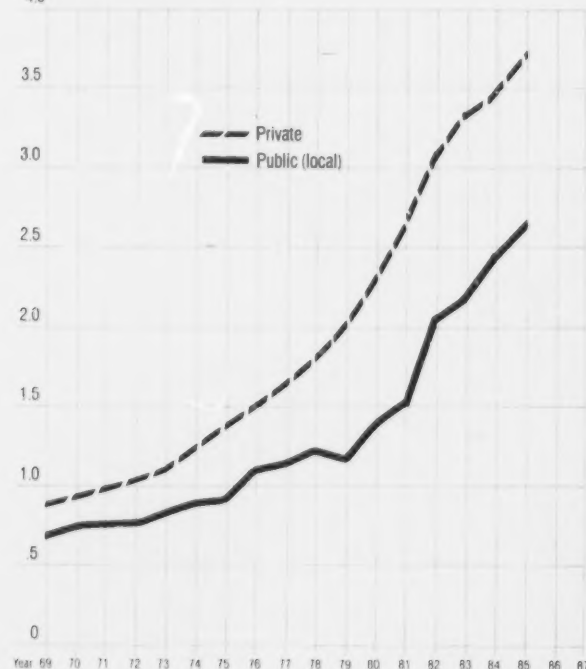
12. Distribution Expenses per kWh sold, public and private utilities 1969-1985

Mills per kWh

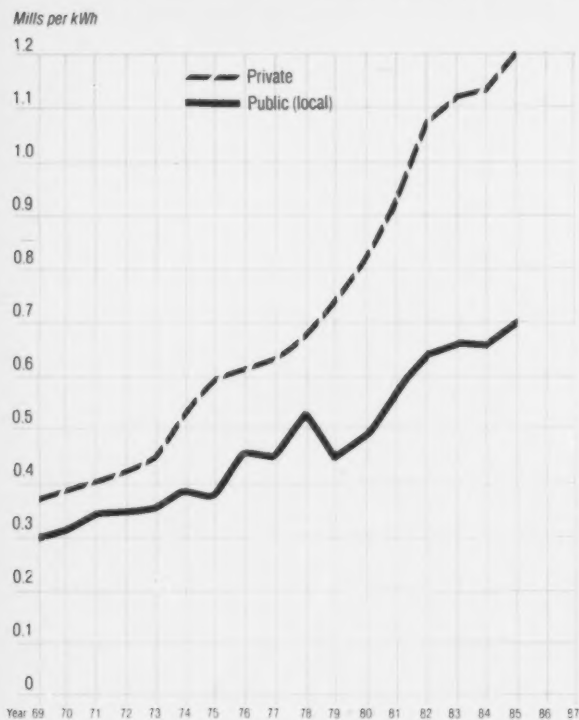


13. Administrative and General Expenses per kWh sold, public and private utilities 1969-1985

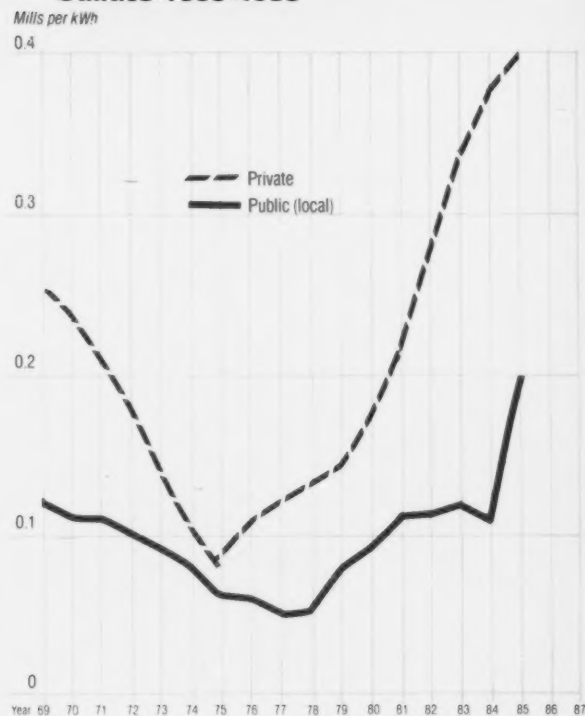
Mills per kWh
4.0



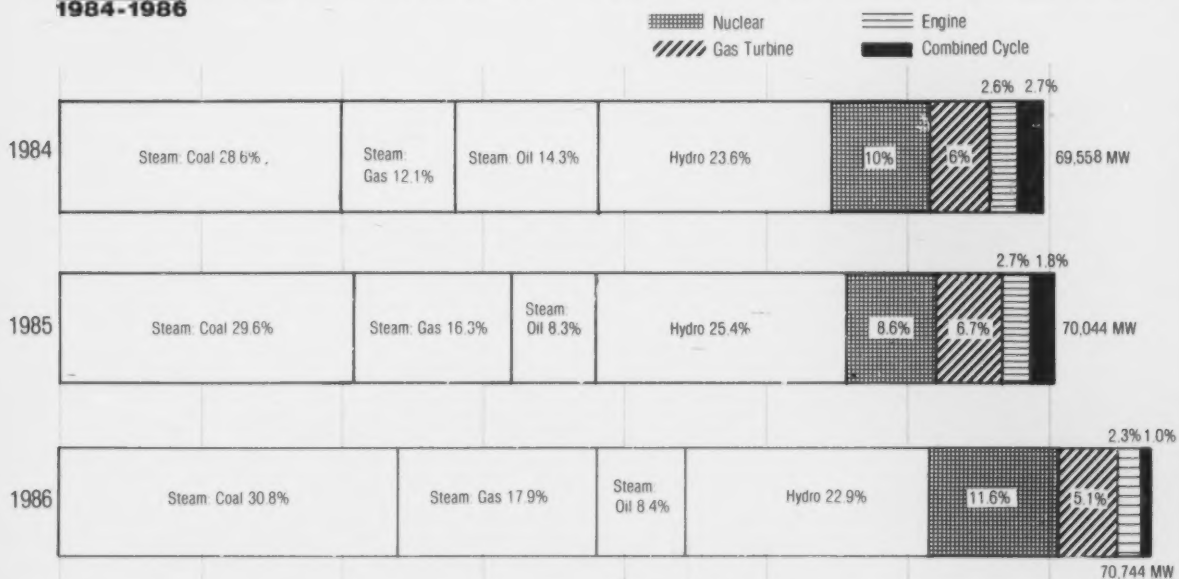
14. Accounting and Collections Expenses per kWh, Public and Private Utilities 1969-1985



15. Customer Service, Information and Sales Expenses per kWh, Public and Private Utilities 1969-1985



16. Installed Generating Capacity of Public Power Systems in the United States, by Type of Fuel, 1984-1986



JACKSON Util. Div., (119 E. College, 38301)		Address, zip code
Telephone	(901/422-7500) Joe H. Exum.	Electric meters served
Title	gen. mgr.; 24,945 met. (no gen.)	Installed generating capacity
	0 kWh	Kilowatt hours generated annually
Kilowatt hours purchased (or sold) annually	pur. 1,016,773,578 kWh (rev.)	Gross annual electric revenue
Year public power system established	\$47,437,759 (1937)	Year in which data updated
APPA (American Public Power Association) member		(7 = 1987, 6 = 1986, 5 = 1985)
DEED (Demonstration of Energy Efficient Developments) member		

ALABAMA

(Systems designated "TVA" are distributors of Tennessee Valley Authority power and purchase all of their power from TVA.)

ALBERTVILLE Utils. Board, Box 130, 35950, 205/878-3761, Jim Stewart, gen. mgr.; 7,532 met.; no gen.; pur. 375,855,590 kWh; rev. \$18,784,560. (TVA) (1938)*⁷

ALEXANDER CITY, City of, Box 552, 35010, 205/329-8426, Charles Bailey, mayor; 5,110 met.; no gen.; pur. 94,199,000 kWh; rev. \$5,258,000. (1930s)*[†]

ANDALUSIA Util. Dept., Box 790, 36420, 205/222-1332, 4,512 met.; no gen.; pur. 140,309,200 kWh; rev. \$6,303,471. (1944)⁵

ATHENS, City of, Elec. Dept., Box 1089, 35611, 205/232-3740, T. T. Craven, mgr.; 20,773 met.; no gen.; pur. 463,521,295 kWh; rev. \$20,371,994. (TVA) (1935)⁵

BESSEMER Utils., 1600 First Ave., N., Box 846, 35021, 205/424-2304, James L. Clements; 12,864 met. (TVA) (1939)*⁷

BRUNDIDGE Elec. Dept., Box 338, 36010, 205/735-2321, Jack V. Taylor, mgr.; 1,300 met.; no gen.; pur. 22 million kWh; rev. \$1,200,000 (1950)⁵

COURTLAND Elec. Dept., Box 160, 35618, 205/637-2707, Charles Terry, elec. supt.; 802 met. (TVA) (1935)⁷

CULLMAN Power Bdr., 204 2nd Ave. NE, Drawer 927, 35056, 205/734-2343, Jimmy Garrett, mgr.; 7,199 met.; no gen.; pur. 273,412,383 kWh; rev. \$14,046,285. (TVA) (1947)*⁷

DECATUR Utils. Elec. Dept., Box 2232, 35602, 205/552-1440, Roy G. Russell, mgr.; 20,795 met.; pur. 1,200,727,796 kWh; rev.

\$54,500,921 (TVA) (1939)⁷

DOTHAN, City of, 126 N. St. Andrews St., 36303, 205/793-0196, James C. Kilgore, water & elec. supt.; 22,655 met.; no gen.; pur. 775,925,370 kWh; rev. \$39,023,000. (1903)*[†]

ELBA Water & Elec. Dept. 200 Buford St., 36323, 205/897-2261, Paul Cherry, supt.; 1,800 met.; pur. 43,000,000 kWh; rev. \$2,574,000.⁵

EVERGREEN, City of, Box 229, 36401, 205/578-1574, Gordon Wright, supt.; 1,875 met.; no gen.; sales 34,630,201 kWh.⁷

FAIRHOPE Electric Dept., Drawer 429, 36533, 205/928-8003, Aaron Norris, elec. supt.; 3,811 met.; no gen.; pur. 76,585,000 kWh; rev. \$4,419,853. (1923)*[†]

FLORENCE, City of, Elec. Dept., Box 877, 35631, 205/764-7271, J. H. McClanahan, mgr.; 35,538 met.; no gen.; pur. 839,768,599 kWh; rev. \$42,370,101. (TVA) (1936)*⁷

FORT PAYNE Improvement Authority, 118 Godfrey Ave. S.E., Box 617, 35967, 205/845-0671, Richard C. Griffin, mgr.; 6,666 met.; no gen.; pur. 205,878,622 kWh; rev. \$10,329,354. (TVA) (1940)⁷

GUNTERSVILLE Elec. Bd., 325 Gunter Ave., 35976, 205/582-5691, C. H. Gordon, mgr.; 5,011 met.; no gen.; pur. 169,398,720 kWh; rev. \$8,384,624. (TVA) (1933)*⁷

HARTFORD Water & Light Dept., 203 W. Main St., 36344, 205/588-3303, H. R. Lee, supt.; 1,150 met.; no gen.⁷

HARTSELLE Elec. Bd., Box 847, 35640, 205/773-2588, Max King, mgr.; 4,152 met.; no gen.; pur. 123,219,323 kWh; rev. \$6,392,565. (TVA) (1938)⁷

HUNTSVILLE, City of, 112 Spraggins St., 35804, 205/535-1200, E. E. Cobb, gen. mgr.; 95,238 met.; no gen.; pur. 2,920,886,015 kWh; rev. \$136,367,261. (TVA) (1941)*⁷

LAFAYETTE, City of, Mun. Light Plant, 50 Avenue A, Box 87, 36862, 205/864-9812, Clyde Eugene Lamb,

elec. dept. supt.; 1,304 met.; no gen.; sales 19.8 million kWh; rev. \$1,251,750. (1911)*[†]

LANETT, City of, Box 290, 36863, 205/644-2141, Ross Whitman, supt. of utils.; 3,216 met.; no gen.; pur. 44,339,210 kWh; rev. \$2,412,835.[†]

LUVERNE Electric Board, Box 249, 36039, 205/335-3741, Bobby Langford, supt.; 1,537 met.; no gen.; pur. 32,250,000 kWh; rev. \$1,840,000.[†]

MUSCLE SHOALS Elec. Bd., 1000 Avalon Ave., 35661, 205/383-6681, T. D. Lasater, mgr.; 4,375 met.; no gen.; pur. 163,836,433 kWh; rev. \$8,548,299. (TVA) (1933)*⁷

OPELIKA, City of, Light & Power Dept., 1010 Ave. C, 36802, 205/745-4681, B. J. Douglas, dir., lt. & pwr. dept.; 9,213 met.; no gen.; pur. 309,648,872 kWh; rev. \$15,037,865. (1910)*[†]

OPP, City of, Utils. Bd., Box 311, 36467, 205/493-4572, Charles McGowan, mgr.; 3,091 met.; no gen.; pur. 62,800,000 kWh; rev. \$4,100,000. (1943)⁵

PIEDMONT, City of, Elec. Sys., Box 112, 36272, 205/447-9007, Kenneth Jackson, supt.; 2,200 met.; no gen.; pur. 38 million kWh; rev. \$1.7 million.[†]

RIVIERA UTILITIES, 413 E. Laurel Ave., Box 550, Foley 36536, 205/943-5001, H. Sewell St. John Jr., gen. mgr.; 17,351 met.; no gen.; pur. 369,102,105 kWh; rev. \$22,383,865. (1941)*[†]

ROBERTSDALE, City of, Box 429, 36567, 205/947-2144, Paul N. Edhegard, supt. of utils.; 1,378 met.; no gen.; pur. 27,624,426 kWh; rev. \$1,677,432. (1924)⁷

RUSSELLVILLE, City of, Elec. Bd., Box 1148, 35653, 205/332-3850, Ralph Bishop, mgr.; 4,159 met.; no gen.; pur. 107,572,011 kWh; rev. \$5,495,532. (TVA) (1938)⁵

SCOTTSBORO Electric Power Bd., Box 399, 35768, 205/574-2680, L. E. Price, mgr.; 6,773 met.; no

gen.; pur. 296,419,737 kWh; rev. \$13,703,425. (TVA) (1939)*⁷

SHEFFIELD Power, Water & Gas Dept., Box 580, 35660, 205/383-5221, Walter T. Hester, gen. mgr.; 15,802 met.; no gen.; pur. 360,823,575 kWh; rev. \$20,283,120. (TVA) (1936)*⁷

SYLACAUGA, City of, Utils. Bd., Box 207, 35150, 205/249-0372, William T. Scott, mgr.; no gen.; pur. 147,500,000 kWh; rev. \$8,062,000. (1955)*[†]

TARRANT CITY Elec. Dept., 1604 Pinson Valley Pkwy., Box 170220, 35217, 205/841-1721, Mayor Robert J. Burns, mgr.; 3,308 met.; pur. 74 million kWh; rev. \$4,314,969. (TVA) (1933)⁷

TROY Pub. Utils., Box 549, 36081, 205/566-2130, G. H. Reeves, supt.; 5,299 met.; no gen.; sales 153,722,246 kWh; rev. \$8,575,722. (1895)⁷

TUSCUMBIA, City of, Elec. Dept., Box 269, 35674, 205/383-0321, Charles P. Ricks, mgr.; 3,753 met.; no gen.; pur. 89,913,365 kWh; rev. \$4,603,648. (TVA) (1937)*⁷

TUSKEGEE, City of, 101 Fonville St., 36083, 205/727-6227, William Turner Jr., supt.; 6,820 met.; no gen.; pur. 2,453,470 kWh; rev. \$5,748,000. (1939)[†]

ALASKA

AKUTAN ELECTRIC UTILITY, Box 557, Dutch Harbor 99692, 907/698-2228, Jacob M. Stepetin, mayor, 33 met.; gen. 180 kW diesel (60 kW standby), 231,000 kWh; pur. none; rev. \$64,000. (1982)⁶

ALASKA POWER AUTHORITY, 701 E. Tudor, Box 190869, Anchorage, 99519, 907/561-7877, Robert D. Heath, exec. dir.; gen. 74,000 kW hydro, 180 million kWh; pur. none; \$11 million. (1976)*⁶

ANCHORAGE Mun. Light & Power, 1200 E. First Ave., 99501, 907/279-7671, Thomas R. Stahr, gen. mgr.; 29,958 met.; gen. 194,600 kW, 37,500 steam turbine, 154,500 kW dual-fuel gas (combustion turbine), 2,600 kW oil (eng.) 953,084,200 kWh; pur. 74,925,000 kWh; rev. \$63,605,889. (1932)*⁷

CHIGNIK Elec., General Delivery, 99564, 907/749-2280, Nina Anderson, city clerk; 50 met.; no gen.; rev. approx. \$110,000. (1981)⁶

FAIRBANKS Mun. Utils. System, Box 2215, 99707, 907/456-1000, Alan

* denotes APPA membership.

† denotes DEED (Demonstration of Energy-Efficient Developments) membership.

ALASKA (continued)

Martin, asst. util. supt.; 6,541 met.; gen. 65,100 kW, 28,500 kW coal (steam turbine), 28,350 kW oil (gas turbine); 8,250 kW oil (combust. eng.); 111,602,000 kWh; pur. 55,004,700 kWh; rev. \$12,953,967. (1949)⁶

KETCHIKAN Pub. Utils., 2400 Tongass Ave., 99901, 907/225-1000, Richard A. Southworth, utils. mgr.; 6,470 met.; gen. 49,250 kW, 33,800 kW hydro, 15,450 kW other; 109,120,200 kWh; pur. 42,600,000 kWh; rev. \$9,576,262. (1935)⁷

KING COVE, City of, Box 37, 99612, 907/497-2340, Cynthia Samuelson, city clerk; 160 met.; 600 kW eng.; pur. none; \$212,736. (1950)⁶

KLUKWAN INDIAN VILLAGE, Box 210, Haines 99827, 907/766-2805, Gene Strong, mgr.; 70 met.; 2,400 kW diesel gen.; pur. none; rev. \$24,000. (1968)⁶

KOTLIK, City of, 99620, 907/277-0533, Benny Kamkoff, mgr.; 121 met. (Billing by Breeze Associates, 921 W. 6 Ave., Anchorage 99501.) (1982)⁶

KUIGGLUUM KALLUGVIA, c/o Kwethluk Inc., Box 80, Kwethluk 99621, 907/757-6613, Frank D. Nicori, bus. mgr.; 157 met.; 310 kW oil eng.; 682,224 kWh; pur. none; rev. \$541,857. (1977)⁷

MANOKOTAK, Village of, 99628, 907/289-1027, Gust Bartman, mayor; 74 met.; gen. 315 kW diesel. (1976)⁶

METLAKATLA Power and Light, Box 456, 99926, 907/886-4451, Bill Kaltenecker; 583 met.; gen. 6,900 kW, 3,900 kW hydro, 3,000 int. combust. eng.; 20,273,520 kWh; 17,750,230 kWh; rev. \$1,469,667. (1927)⁶

NOME Joint Util. System, Box 70, 99762, 907/443-5288, Dean Wolfe, mgr.; 1,800 met.; gen. 6,800 kW eng.; 21,000,000 kWh; pur. none; rev. \$5,375,000. (1960)⁵

NORTH SLOPE BOROUGH, Box 69, Barrow 99723, 907/852-2611; Rebecca Straw; 776 met.; gen. 5,840 (eng.); 11,046,150 kWh; pur. none; rev. \$2,070,765. (1980)⁷ (North Slope system operates in seven villages: Anaktuvuk Pass, Atkasuk, Kaktovik, Nuiqsut, Point Hope, Point Lay and Wainwright.)

PETERSBURG Mun. Power & Light, Box 329, 99833, 907/772-4203, Dennis Lewis, supt.; 1,669 met.; gen. 4,550 kW (eng.); 1,600 kW hydro, 11,582,431 kWh; pur. 15,828,620 kWh; rev. \$2,499,265. (1924)⁷

ST. PAUL, City of, Mail Pouch #1, 99660, 907/546-2331, Vern McCorkle, city mgr.; 350 met.; gen. 1,125 kW diesel (eng.); pur. none; rev. \$2 million. (1983)⁵

SEWARD Pub. Utils., Box 167, 99664, 907/224-3331, Paul Diener; 1,856 met.; gen. 10,750 kW, 10,500 kW oil, eng.; 250 kW hydro; 4,788,620 kWh; pur. 32,294,400 kWh; rev. \$3,184,846. (1955)⁶

SITKA, City & Borough of, 304 Lake St., Room 104, 99835, 907/747-3294, Greg Grisom, elec. supt.; 3,716 met.; gen. 33,200 kW, 8,600 kW oil (eng.); 24,600 kW hydro, 101,315,000 kWh; pur. none; rev. \$6,142,187. (1941)⁷

THORNE BAY, City of, Box 110, 99919, Neil J. Trautman, pub. works dir.; 163 met.; gen. 900 kW oil (eng.); sales 1,460,218 kWh; rev. \$451,000. (1983)⁷

TLINGIT-HAIDA REGIONAL ELECTRIC AUTHORITY, Box 210149, Auke Bay, 99821, 907/789-3196; Jarrett Broughton, mgr.; 911 met.; gen. 5,131 kW oil (eng.); 8,861,346 kWh; pur. none; rev. \$2,844,131. (1977)⁶

UNALASKA Elec. Util., Box 89, 99685, 907/581-1260, Bob Burton, util. mgr.; 370 met.; gen. 4,000 kW oil (eng.); 3,600,000 kWh; rev. \$1,165,000. (1970)⁶

WRANGELL Light & Power Dept., Box 531, 99929, 907/874-2381, Frank Fields, supt.; 1,170 met.; gen. 24-MW hydro, 3 million kWh; pur. 1.3 million kWh; rev. \$1,698,688.⁵

ARIZONA

ARIZONA POWER AUTHORITY, Box 6694, Phoenix, 85007, 602/255-4263, Lester S. Ormsby, admn.; 17 met.; no gen.; pur. 677,752,463 kWh; rev. \$6,296,267. (1944) *⁷

CORTARO-MARANA IRRIGATION DISTRICT, 138648 N. Sandario Rd., Marana, 85653, 602/682-3233, Robert Condit, mgr.; no gen.; pur. 33,690,000 kWh.⁷

ELECTRICAL DISTRICT NO. 1, Box 870, Stanfield, 85272, 602/424-3337, Thomas N. Caywood, pres.; 69 met.; no gen.; pur. 23,020,971 kWh; rev. \$1,258,900. *⁶

ELECTRICAL DISTRICT NO. 2, Box 548, Coolidge, 85228, 602/723-7741, William J. Metheny, gen. mgr.; 2,433 met.; no gen.; pur.

230,713,800 kWh; rev. \$6,237,954. (1926) *⁷

ELECTRICAL DISTRICT NO. 3, Box 870, Stanfield, 85272, 602/424-3344, W.A. Dunn, chmn.; 490 met; no gen.; pur. 314,349,706 kWh; rev. \$5,542,878. (1961) *⁷

ELECTRICAL DISTRICT NO. 4, Box 605, Eloy, 85231, 602/466-7336, James Sweeney, mgr.; 476 met.; no gen.; pur. 111,789,643 kWh; rev. \$2,249,708. (1936)⁷

ELECTRICAL DISTRICT NO. 5, Pinal County, Box 8, Red Rock, 85245, 602/682-3442, William D. Woehlecke, secy.-mgr.; 279 met.; no gen.; pur. 75,037,184 kWh; rev. \$1,227,456. (1949)⁷

ELECTRICAL DISTRICT NO. 6, Pinal County, Suite 720, 2845 E. Camelback Rd., Phoenix, 85016, 602/956-8878, Raymond D. Schnepf, chmn.; 220 met.; no gen.; pur. 92,820,000 kWh; rev. \$4,482,000. (1965)⁵

ELECTRICAL DISTRICT NO. 7, Rt. 1, Box 662, Peoria, 85345, 602/935-3711, R.D. Justice, bd. chmn.; 110 met.; no gen.; pur. 60 million kWh; rev. \$1.1 million. (1948)⁵

ELECTRICAL DISTRICT NO. 8, Maricopa County, 1001 N. Central Ave., No. 601, Phoenix, 85004, 602/258-8401, Douglas C. Nelson, counsel; 165 met. (Began service June 1, 1987) (1984) *⁷

FREDONIA, Town of, Box 217, 86022, 602/643-7241, Barbara Kimball, town clerk; 520 met.; no gen. (1987)⁷

GILBERT, Town of, 119 N. Gilbert Rd., 85234, 602/892-0802, Phyllis Alberty, town clerk. (On Sept. 15, 1987, citizens voted to create a public power system in territory now served by Arizona Public Service Co.)⁷

MARICOPA WATER DISTRICT, Box 260, Waddell, 85355, 602/975-2151, Joe Falbo, gen. mgr.; 80 met.; no gen.; pur. 49,381,112 kWh; rev. \$699,214. (1935) *⁵

MESA, City of, Elec. Util., 730 N. Mesa Dr., Box 1466, 85201, 602/834-2265; Richard R. Williams, elec. util. mgr.; 12,869 met.; no gen.; pur. 273,448,800 kWh; rev. \$17,998,670. (1917) *⁷

NAVAJO TRIBAL UTILITY AUTHORITY, Box 170, Fort Defiance, 86504, 602/729-5721, Malcolm P. Dalton, gen. mgr.; 23,010 met.; no gen.; pur. 524,357,592 kWh; rev. \$26,128,920. (1966) *⁷

PAGE Elec. Util., 148 - 6th Ave., 86040, 602/645-2419, Charlie Gidcomb, actg. 4,000 met.; gen. mgr.; no gen.; pur. 5.3 million kWh; rev. \$5.5 million. (1985) *^{†6}

PAPAGO TRIBAL UTILITY AUTHORITY, Box 816, Sells, 85634, 602/383-2236, Jerrel D. Huey, gen. mgr.; 2,260 met.; no gen.; pur. 62,472,905 kWh; rev. \$4,144,624. (1974)⁵

ROOSEVELT IRRIGATION DISTRICT, Box 95, Buckeye, 85326, 602/935-4271, Jack Conovaloff, mgr.; 100 met.; no gen.; pur. 41 million kWh (includes pumping use); rev. \$540,880. (1928)⁵

ROOSEVELT WATER CONSERVATION DISTRICT Box 168, Higley, 85236, 602/963-3414, Michael O. Leonard, gen. mgr.; no gen.; pur. 49,842,402 kWh; (energy used for water utility operations); rev. \$3,121,000. (1924)⁶

SAFFORD, City of, 717 Main St., Box 272, 85546, 602/428-2762, Charlie Pratt, elec. serv. dir.; 3,600 met. (1937) *⁵

SALT RIVER PROJECT, Box 52025, Phoenix, 85072-2025, 602/236-5900, A. J. Pfister, gen. mgr.; 473,570 met.; gen. 4,190,440 kW, 2,069,091 kW coal (steam turbine), 528,472 kW gas (steam turbine), 490,836 kW nuclear, 449,800 kW gas (combust. turbine), 414,000 gas (comb. cycle), 238,241 (hydro), 12,937,291,000 kWh; pur. 3,586,893,990 kWh; rev. \$874,430,738. (1909) *^{†7}

THATCHER Mun. Utils., 230 College Ave., Box 670, 85552, 602/428-2290, Herbert Winsor, mgr.; 703 met.; no gen.; pur. 9,175,806 kWh; rev. \$625,826. (1946) *^{†6}

WELLTON-MOHAWK IRRIGATION & DRAINAGE DISTRICT, Rt. 1, Box 19, Wellton, 85356, 602/785-3351, C. L. Gould, mgr.-secy.; 2,889 met.; gen. 1,200 kW oil (eng.-standby), 13,280 kWh; pur. 147,431,217 kWh; rev. \$2,839,847. (1942) *^{†7}

WICKENBURG, Town of, Box 1269, 120 E. Apache, 85358, 602/684-5451, Ben Nardelli, town mgr.; 1,113 met.; no gen.; pur. 16,956,000 kWh; rev. \$1,345,612. (1947)⁵

WILLIAMS, 86046. (Town owns distribution system; leased until 1992 to Arizona Public Service Co.)

ARKANSAS

AUGUSTA City Light, Water & Gas Plant, 100 S. Fifth St., 72006, 501/347-2041, Ronnie Stracener, mgr.; 955 met.; no gen.⁵

BENTON Utils., 222 W. South, Drawer 607, 72015-0607, 501/778-2546, E.L. Cody, gen. oper. supt.; 8,702 met.; gen. 9,000 kW, 500 kW oil (combust. turbine), 8,500 kW dual-fuel (combust. turbine), 1,662,400 kWh; pur. 114,164,400 kWh; rev. \$7,767,440. (1918)⁶

BENTONVILLE Light & Water System, City Hall, 115 W. Central, 72712, 501/273-9061, Wallace Allen, elec. supt.; 4,535 met.; no gen.; sales 105.9 million kWh; rev. \$5,120,565. (1902)⁵

CLARKSVILLE Light & Water Co., Box 99, 72830, 501/754-3148, Ottis R. Cude, gen. mgr.; 2,750 met.; no gen.; pur. 86,552,200 kWh; rev. \$4,566,282. (1932)⁷

CONWAY Corp., Box 99, 72032, 501/329-5641, James H. Brewer, gen. mgr.; 9,936 met.; gen. 66,740 kW coal (steam turbine), 355,585,440 kWh; pur. 11,536,839 kWh; rev. \$16,145,178. (1929)⁷

HOPE Water & Light Plant, Box 667, 71801, 501/777-6701, James R. Kirchhoff, util. mgr.; no gen.; pur. 143,245,200 kWh; rev. \$9,200,681. (1910)⁷

JONESBORO City Water & Light Plant, 400 E. Monroe, 72401, 501/935-5581, James A. Reed, mgr.; 16,710 met.; gen. 167,000 kW cog., 330,988,200 kWh; pur. 639,210,600 kWh; rev. \$24,353,571. (1906)⁷

NORTH LITTLE ROCK, Elec. Dept., 8th & Main Sts., Box 159, 72115, 501/372-0100, Cathern Wilkins, gen. mgr.; 33,697 met.; no gen.; pur. 699,720,507 kWh; rev. \$47,581,107. (1903)⁷

OSCEOLA Mun. Light & Power, 316 W. Hale Ave., 72370, 501/563-5245, Jack L. Wilson, util. mgr.; 3,520 met.; gen. 13,140 kW, 8,140 kW coal (steam turbine), 5,000 kW oil (eng.-standby); 44,097,840 kWh; pur. 76,130,625 kWh; rev. \$6,225,868. (1928)⁷

PARAGOULD City Light & Water, 303 W. Court St., 72450, 501/236-8571, John H. McDaniel, mgr.; 8,427 met.; no gen.; pur. 246,066,999 kWh; rev. \$7,093,045. (1938)⁷

PARIS Mun. Light & Water Plant, Box 271, 72855, 501/963-2450, Jim

O'Bar, mgr.; 1,756 met.; no gen.; pur. 32 million kWh; rev. \$1,144,000.⁵

PIGGOTT Municipal Light, Water & Sewer, 411 N. Thornton St., 72454, 501/598-2997, Teddy Bellers, elec. sys. mgr.; 2,021 met.; gen. 7,498 kW, 2,277 kW oil (eng.), 5,221 kW dual-fuel (eng.); 80,000 kWh; pur. 31,833,995 kWh, \$1,509,443. (1923)⁷

PRESCOTT, City of, Water & Light, 118 W. Elm St., 71857, 501/887-2210, Larry Stockton, mgr.; 1,760 met.; no gen.; pur. 25,043,200 kWh; rev. \$2,053,060. (1921)⁷

SILOAM SPRINGS, City of, Electric, 410 N. Broadway, 72761, 501/524-5136, Stuart P. Thomas Jr., dir. pub. wks. and pub. utils.; 3,928 met.; no gen.; pur. 132,825,000 kWh; rev. \$7,405,415. (1901)⁷

WEST MEMPHIS Util. Comm., 604 E. Cooper, Box 1868, 72301, 501/735-3355, William M. Johnson, 10,957 met.; no gen.; rev. \$15,887,393.⁵

CALIFORNIA

ALAMEDA City of, Bureau of Elec., 2000 Grand St., Drawer H, 94501, 415/522-7411, William C. Lewis, gen. mgr.; 30,191 met.; no gen.; pur. 423,649,696 kWh; rev. \$27,883,065. (1887)⁷

ALTURAS, City of, 200 W. North St., 96101, 916/233-2512, Roger Dorris, mayor. (In June 1987 Alturas residents voted 73%-27% to acquire facilities of Pacific Power & Light serving approximately 3,000 meters.)

ANAHEIM, City of, 200 S. Anaheim Blvd., Suite 649, 92805, 714/999-5100, ext. 5546, Gordon W. Hoyt, util. gen. mgr.; 93,568 met.; gen. 67,940 kW nuclear, 672,063,757 kWh; pur. 939,259,786 kWh; rev. \$175,292,000. (1895)⁷

AZUSA, Light & Water Dept., Box 5100, 91702, 818/334-0215, Joseph F. Hsu, util. dir.; 12,606 met.; no gen.; pur. 176,691,600 kWh; rev. \$15,511,654. (1898)⁷

BANNING, City of, 176 E. Lincoln St., Box 998, 92220, 714/849-4511, Eldridge Sinclair, dir. of pub. utils.; 6,169 met.; no gen.; pur. 71,280,000 kWh; rev. \$6,926,000. (1923)⁷

BIGGS, City of, Box 307, 95917, 916/868-5493, W.T. West, dir. pub.

wks.; 577 met.; no gen.; pur. 9,412,909 kWh; rev. \$399,403.⁵

BURBANK, City of, Pub. Service Dept., 164 W. Magnolia Blvd., Box 631, 91503, 818/953-9640, Thomas H. McCauley, gen. mgr.; 44,474 met.; gen. 233,000 kW, 152,000 kW dual-fuel (steam turbine), 70,000 kW dual-fuel (gas combust. turbine), 11,000 kW dual-fuel (comb. cycle) 219,317,000 kWh; pur. 869,200,000 kWh; rev. \$55,407,912. (1913)⁷

CALAVERAS COUNTY Water District, Box 846, San Andreas, 95246, 209/754-3543, Steve Felte, gen. mgr. (Completion of the district's 205-MW Stanislaus project, under construction, is expected in 1989. Power will be sold to the Northern California Power Agency.) (1947)⁷

CALIFORNIA DEPT. OF WATER RESOURCES, Box 942836, Sacramento, 94236-0001, 916/445-6582, David N. Kennedy, dir.; 15 met.; no retail customers; gen. 1,562,340 kW, 265,000 kW coal (steam turbine), 55,000 kW geothermal (steam turbine), 1,242,340 kW hydro, 4,256,891,211 kWh; pur. 2,302,376,855 kWh; rev. \$68,373,824. (1958)⁷

COLTON, City of, Elec. Dept., 650 N. La Cadena Dr., 92324, 714/370-5104, Gale A. Drews, elec. util. dir.; 12,611 met.; gen. 1,500 kW nuclear, 4,077,727 kWh; pur. 160,747,200 kWh; rev. \$12,643,906. (1897)⁷

EAST BAY Mun. Util. Dist., Box 24055, Oakland, 94623, 415/835-3000, J. B. Gilbert, gen. mgr.; 2 met. (output sold to Pacific Gas & Electric); gen. 39,300 hydro; 202,817,500 kWh; pur. 100,685,200 kWh; rev. \$7,798,605. (1930)⁵

GLENDALE, City of, Pub. Service Dept., 119 N. Glendale Ave., 91206, 818/956-2107, W.E. Cameron, dir. of pub. serv.; 68,948 met.; gen. 223,000 kW, 103,000 kW dual-fuel (steam turbine), 38,000 kW dual-fuel (combust. turbine), 80,000 kW dual-fuel (comb. cycle), 2,000 kW gas (eng.); 154,557,000 kWh; pur. 871,424,000 kWh; rev. \$61,218,958. (1909)⁷

GRIDLEY, City of, 685 Kentucky St., 95948, 916/846-3631, Henry E. Ford, city admin.; 1,659 met.; no gen.; pur. 20.5 million kWh; rev. \$621,318. (1910)⁵

HAYFORK VALLEY PUD, Box 356, Hayfork, 96041, 916/628-4454, Jeffrey K. Shields, gen. mgr.; 724 met.; pur. about 7 million kWh; rev. about \$500,000. (Began operating 1987). (1983)⁷

HEALDSBURG, City of, 550 Westside Rd., Box 578, 95448, 707/431-3340, William Duarte, elec. util. dir.; 4,000 met.; no gen.; pur. 57,764,000 kWh; rev. \$4,326,271. (1900)⁷

IMPERIAL IRRIGATION DISTRICT, Box 937, Imperial, 92251, 619/339-9344, Charles L. Shreves, gen. mgr.; 60,776 met.; gen. 451,203 kW, 184,000 kW dual-fuel (steam turbine), 165,000 kW dual-fuel (combust. turbine), 12,000 kW oil (eng.), 85,645 kW hydro, 801,132,822 kWh; pur. 796,162,519 kWh; rev. \$87,367,897. (1915)⁷

KINGS RIVER CONSERVATION DIST., 4886 E. Jensen Ave., Fresno, 93725, 209/237-5567, Jeff L. Taylor, gen. mgr.; sales 346,655,232 kWh; rev. \$2,634,579. (1951)⁷

LODI, City of, Elec. Util. Dept., City Hall, 221 W. Pine St. (Call Box 3006, Lodi), 95241-1910, 209/333-6748, Henry J. Rice, elec. util. dir.; 20,064 met.; no gen.; pur. 296,400,773 kWh; rev. \$20,967,392. (1910)⁷

LOMPOC, City of, 100 Civic Center Plaza, 93436, 805/736-1261, Gene L. Wahlers, city admin.; 11,968 met.; no gen.; pur. 104,512,675 kWh; rev. \$6,625,624. (1923)⁷

LOS ANGELES Dept. of Water and Power, 111 N. Hope St., Box 111, 90051, 213/481-4211, Norman E. Nichols, asst. gen. mgr.-power; 1,268,399 met.; gen. 1,368,000 kW coal, 496,800 kW gas, 2,866,900 kW dual-fuel (steam turbine), 94,320 kW dual-fuel (eng.), 2,058,215 kW hydro; 19,670,251,472 kWh; pur. 5,548,246,105 kWh; rev. \$1,455,343,794. (1925)⁷

MERCED IRRIGATION DISTRICT, Box 2288, Merced, 95344, 209/722-5761, Timothy R. McCullough, sec. mgr.; wholesale only, gen. 89,100 kW hydro, 416,267,000 kWh; pur. none; rev. \$1,985,000. (1919)⁵

METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA, Box 54153, Terminal Annex, Los Angeles, 90054, 213/250-6000, Carl Goronkay, gen. mgr.; 2 met. (wholesale); gen. 67,000 kW hydro; pur. none; rev. \$18 million.⁵

MODESTO IRRIGATION DISTRICT, Box 4060, Modesto, 95352, 209/578-1212, Joseph Marcotte, CEO; 73,154 met.; gen. 188,505 kW, 142,400 kW oil (gas combust. turbine), 46,105 kW hydro, 292,255,488 kWh; pur. 1.2 billion kWh; rev. \$77,604,488. (1923)⁷

NEEDLES, City of, 1111 Bailey Ave., Box 887, 92363, 619/326-2113,

CALIFORNIA (continued)

Vern Bailey, city mgr.; 2,262 met.; no gen.; pur. 49,903,200 kWh; rev. \$1,406,473. (1983)*

NEVADA IRRIGATION DISTRICT, Box 823, Colfax, 95713, 916/273-8571, Gary R. Kalsbeek, hydro div. mgr.; gen. 81,000 kW hydro, 300 billion kWh. (1921)*

OROVILLE-WYANDOTTE IRRIGATION DISTRICT, South Fork Power Project, Box 581, Oroville, 95965-0581, 916/534-1221, Steve C. Onken, power supt.; gen. 104,000 kW hydro, 532,741,900 kWh; rev. \$9,500,000. (Output sold to Pacific Gas & Electric Co.) (1963)*

PALO ALTO, City of, 250 Hamilton Ave., 94301, 415/329-2277, Richard L. Young, dir. util.; 26,453 met.; no gen.; sales 965,500,936 kWh; rev. \$58,226,955. (1900)*†

PASADENA, Water & Power Dept., 150 S. Los Robles, Suite 200, 818/405-4425, Dave Plumb, gen. mgr.; 53,804 met.; gen. 216,000 kW, 161,000 kW gas (steam turbine), 52,000 kW gas (combust. turbine); 3,000 kW hydro; 325,059,000 kWh; pur. 792,788,000 kWh; rev. \$59,096,000. (1906)*†

PLACER COUNTY WATER AGENCY, Box 667, Foresthill, 95631, 916/885-6917, Stephen J. Jones, power sys. mgr.; gen. 211,595 kW hydro; 1,283,234,650 kWh; rev. \$8,615,446. (output sold to Pacific & Electric). (1966)*

REDDING, City of, Elec. Dept., 760 Parkview Ave., 96001-3396, 916/225-4300, Sam Lindley, dir.; 26,667 met.; gen. 3,240 kW hydro, 3,548,555 kWh; pur. 522,693,000 kWh; rev. \$25,123,594. (1921)*†

RIVERSIDE, City of, Pub. Utils., City Hall, 3900 Main St., 4th floor, 92522, 714/782-5781, Bill D. Carnahan, pub. util. dir.; 77,256 met.; gen. 2,254,000 kW nuclear, (1.79 percent of San Onofre plant); 235,106,748 kWh; pur. 1,016,320,577 kWh; rev. \$107,122,000. (1911)*†

ROSEVILLE, City of, 316 Vernon St., 95678, 916/781-0102, Kenneth Weisel, elec. util. dir.; 15,000 met.; no gen.; pur. 283,919,896 kWh; rev. \$14,709,937. (1912)*†

SACRAMENTO Mun. Util. Dist., 6201 S St., 95817-1899, 916/452-3211, Richard K. Byrne, gen. mgr.; 383,796 met.; gen. 72,000 kW geothermal (steam), 913,000 kW nuclear, 649,400 kW hydro, 3,849,751,000 kWh; sales 6.8 billion kWh; rev. \$357,536,000. (1947)*†

SAN FRANCISCO Pub. Utils. Comm., (Hetch Hetchy Water & Power Department), 1155 Market St., 94103,

415/554-0722, Dean Coffey, gen. mgr.; 12 met.; gen. 330,000 kW hydro, 1,924,473,010 kWh; pur. 479,315,275 kWh; rev. \$105,663,491. (1925)*†

SANTA CLARA, Mun. Elec. Dept., 1500 Warburton Ave., 95050, 408/984-3161, James W. Beck, dir. elec. util.; 41,455 met.; gen. 24,700 kW dual-fuel (combust. turbine), 4,100 kW hydro, 45,622,700 kWh; pur. 2,178,658,900 kWh; rev. \$120,278,000. (1896)*†

SHASTA DAM AREA PUD, 1650 Stanton Dr., Box 777, Central Valley, 96019, 916/275-8827, Ronald G. Young, gen. mgr.; 3,600 met.; no gen.; pur. 56,201,000 kWh; rev. \$2,855,464. (1945)*

TRINITY COUNTY PUD, Box 1216, Weaverville, 96093, 916/623-5536, Jeff Shields, gen. mgr.; no gen.; pur. 29,133,150 kWh; rev. \$1,567,064. (1982)*

TRUCKEE-DONNER PUD, Box 309, Truckee, 95734, 916/587-3896, Peter Holzmeister, gen. mgr.; 6,453 met.; no gen.; pur. 81,668,800 kWh; rev. \$5,323,072. (1927)*†

TUOLUMNE COUNTY PUBLIC POWER AGENCY, 2 S. Green St., Sonoma, 95370, 209/533-5511, Dominic Salluce, admin. analyst IV; 29 met.; no gen.; pur. 14,333,286 kWh; rev. \$1,075,009.*

TURLOCK IRRIGATION DISTRICT, 333 E. Canal Dr., Turlock, 95380, 209/632-3861, Ernest Geddes, gen. mgr.; 49,401 met.; gen. 155,848 kW dual-fuel gas (combust.) turbine, 105,948 kW hydro, 644,645,784 kWh; pur. 448,373,080 kWh; rev. \$50,113,030. (1922)*†

UKIAH, City of, 203 S. School St., 95482, 707/462-2971 Maurice K. Roper, dir. elec. util.; 6,450 met.; gen. 3,500 kW hydro, 17,250,000 kWh; pur. 93,315,525 kWh; rev. \$7,701,400. (1897)*†

VERNON, City of, Light & Power Dept., 4305 Santa Fe Ave., 90058 213/583-8811, Bruce V. Malenhorst, exec. dir.; 2,061 met.; gen. 6,000 kW oil (int. combust. eng.), 9,357,550 kWh; pur. 1,097,204,115 kWh; rev. \$74,906,767. (1933)*

YUBA COUNTY WATER AGENCY, Box 176, Dobbins, 95935, 916/692-1633, Daryl D. Sutton, mgr.; gen. 365,000 kW hydro, 590,691,000 kWh; rev. \$8,983,389. (Output sold to Pacific Gas & Electric Co.) (1966)*

COLORADO

(The area code for communities of and near Colorado Springs, Pueblo, Leadville and Alamosa will change to 719 on March 5.)

ASPEN, City of, 130 S. Galena, 81611, 303/925-2020, Jay Hammond, public serv. dir.; 2,227 met.; no gen.; pur. 49,142,615 kWh; rev. \$3,002,192. (1896)*

BURLINGTON, City of, 480 15th St., 80807-1624, 303/346-8585, Don Beethe, city admin.; 1,739 met.; gen. 6,300 kW dual-fuel, (eng.-standby); 50,361 kWh; pur. 21,336,554 kWh; rev. \$1,653,330. (1920)*

CENTER Mun. Light and Power, 400 S. Worth, Box 400, 81125, 303/754-3497, Darrell T. Davis, supt.; 888 met.; 1,700 kW, 1,200 kW oil (eng.), 500 kW dual-fuel (eng.); pur. 10,828,604 kWh; rev. \$476,585. (1941)*†

COLORADO SPRINGS, Dept. of Utils., Box 1103, 80947, 303/636-5301, James D. Phillips, deputy city mgr./util. dir.; 139,241 met.; gen. 557,800 kW, 464,300 kW coal (steam turbine), 87,500 kW dual-fuel (steam turbine), 6,000 kW hydro; 3,203,585,000 kWh; pur. 233,095,000 kWh; rev. \$132,425,675. (1925)*†

DELTA Mun. Light & Power, 1133 Main St., Box 19, 81416, 303/874-8400, Fay Mathews, dir. of util.; 1,985 met.; gen. 4,567 kW dual-fuel (eng.), 433 kW oil (eng.), 401,300 kWh; pur. 28,055,629 kWh; rev. \$1,605,000. (1937)*†

ESTES PARK, Town of, Box 1200, 80517, 303/586-5331, Robert L. Dekker, dir., light & power; 6,408 met.; gen. 880 kW hydro; pur. 73,238,726 kWh; rev. \$4,271,575. (1945)*†

FLEMING, Town of, Box 466, 80728, 303/265-2692, Rick Rigel, util. supt.; 200 met.; no gen.; pur. 2,420,300 kWh; rev. \$101,000.*†

FORT COLLINS, City of, Light & Power Utility, Box 580, 80522, 303/221-6700, Robert A. Kost, lt. and pwr. dir.; 32,723 met.; no gen.; pur. 600,218,633 kWh; rev. \$30,612,896. (1935)*†

FORT MORGAN, City of, Box 100, 80701, 303/867-3001, Glen W. Calvert, city supt.; 5,406 met.; no gen.; pur. 104 million kWh; rev. \$2,843,721. (1906)*

FOUNTAIN, City of, 116 S. Main St., 80817, 303/382-5604, Hudson Morgan, supt.; 9,052 met.; no gen.;

pur. 98,031,000 kWh; rev. \$4,937,406.*

FREDERICK, Town of, Box 435, 80530, 303/833-2388, Wm. Hall, mayor; 305 met.; no gen.*

GLENWOOD SPRINGS, City of, Elec. System, 806 Cooper Ave., 81601, 303/945-2575, Michael Copp, city mgr.; 4,491 met.; no gen.; pur. 69,380,967 kWh; rev. \$4,789,087. (1953)*†

GRANADA, Town of, Elec. Dept., 109 E. Goff St., Box 258, 81041, 303/734-5411, Thelma Schibbeler, town clerk; 219 met.; no gen.; pur. 2,010,000 kWh; rev. \$191,191.*

GUNNISON, City of, Box 239, 81230, 303/641-2443, Dale Howard, city mgr.; 2,853 met.; no gen.; pur. 49,713,825 kWh; rev. \$2,020,601. (1880s)*

HAXTUN, Town of, 145 S. Colorado Ave., 80731, 303/774-6104, R. D. Orcutt, supt.; 700 met.; gen. 620 kW oil, eng. (standby); pur. 5,993,760 kWh; rev. \$266,511. (1904)*

HOLLY, Town of, Box 458, 81047, 303/537-6622, Dorothy Cook, town clerk; 676 met.; no gen.; pur. 6,508,800 kWh; rev. \$400,853. (1949)*

HOLYOKE, City of, 207 W. Denver Ave., 80734, 303/854-2266, Allen Coyne, city supt.; no gen.; pur. 18,873,338 kWh; rev. \$530,404.*

JULESBURG, Mun. Power & Light, 222 E. First St., 80737, 303/474-3344, Victor E. Johnson, town mgr.; 810 met.; gen. 3,060 kW oil (eng.), pur. 8,752,800 kWh; rev. \$698,756.*

LA JUNTA, City of, Mun. Utils., Box 630, 81050, 303/384-8454, Robert H. Smith, elec. supt.; 3,768 met.; gen. 19,253 dual-fuel (eng.), 27,300 kWh; pur. 60,827,060 kWh; rev. \$4,325,975. (1939)*†

LAMAR, City of, Utils. Bd., 100 N. Second St., 81052, 303/336-7456, Donald W. McDaniel, supt.; 5,479 met.; gen. 34,000 kW gas (steam turbine), 2,000 kW oil (eng.-standby), 42,396,000 kWh; pur. 64,973,530 kWh; rev. \$5,872,521. (1919)*†

LAS ANIMAS Mun. Light & Power, Box 271, 81054, 303/456-1621, Dwain Parrack, supt.; 1,964 met.; gen. 5,620 kW dual-fuel (eng.), 25,000 kWh; pur. 21,543,000 kWh; rev. \$1,263,826. (1941)*†

LONGMONT, City of, 1100 S. Sherman St., 80501, 303/776-6050, Jeff Gould, elec. dir.; 21,601 met.; gen. 500 kW hydro, 2,052,347 kWh;

pur. 333,863,000 kWh; rev. \$16,718,000. (1911)*†⁷

LOVELAND, City of Elec. Dept., 446 N. Garfield, 80537, 303/667-6130, ext. 557, Brian Moeck, elec. dir.; 15,575 met.; gen. 900 kW hydro; 4,373,216 kWh; pur. 285,511,845 kWh; rev. \$15,258,802. (1925)*†⁸

LYONS, Town of, 432 5th Ave., 80540, 303/823-6622, Herb McConnell, pub. wks. supt.; 500 met.; no gen.; pur. 6,095,934 kWh; rev. \$375,017.⁵

OAK CREEK, Town of, Box 128, 80467, 303/736-8231, Nancy Crawford clk./coordinator; 364 met.; no gen.; pur. 4,006,459 kWh; rev. \$214,000. (1930s)⁶

SPRINGFIELD Mun. Util., Box 4, 81073, 303/523-4528 or 6231, Darwin Hansen, elec. foreman; 1,037 met.; gen. 2,640 kW dual-fuel eng. (standby); pur. 8,359,284 kWh; rev. \$700,029. (1947)*†⁵

TRINIDAD Mun. Power & Light, 135 N. Animas, 81082, 303/846-9843; David Brunelli, supt.; 4,552 met.; gen. 9,750 kW, 3,000 kW coal (steam turbine), 3,000 gas (steam turbine), 3,750 dual-fuel (eng.), 4,389,000 kWh; pur. 34,655,070 kWh; rev. \$2,568,705. (1948)*⁷

WRAY Mun. Light & Power, Box 35, 80758, 303/332-4431, Robert Snedeker, city mgr.; 1,340 met.; no gen.; pur. 16,020,000 kWh; rev. \$807,894. (1903)*†⁷

YUMA City of, Light & Power, 221 S. Main St., 80759, 303/848-3878, Paul Metcalf, city mgr.; 1,430 met.; gen. (standby) 1,350 kW oil-fired eng.; pur. 15,782,964 kWh; rev. \$914,095. (1928)⁶

CONNECTICUT

GROTON City of, Dept. of Utils., 295 Meridian St., Box 820, 06340, 203/445-8571, William W. Clinton, dir. of utils.; 12,532 met.; no gen.; pur. 577,970,800 kWh; rev. \$32,053,066. (1904)*†⁷

JEWETT CITY Elec. Light Plant, 29 Park Square, 06351, 203/376-2955, Debra L. Bingell, treas.; 1,907 met.; no gen.; pur. 17,602,856 kWh; rev. \$1,358,885. (1893)*†⁷

NORWALK THIRD TAXING DISTRICT, Elec. Dept., 2 Second St., E. Norwalk, 06855, 203/866-9271, Donald H. Radley, mgr.; 3,284 met.; no gen.; pur. 54,398,848 kWh; rev. \$4,982,899. (1913)*†⁷

NORWICH, City of, Dept. of Pub. Utils., 34 Courthouse Sq., Box 1008, 06360, 203/887-2555, Richard E. DesRoches, gen. mgr.; 16,838 met.; gen. 19,750 kW, 16,750 kW gas combus. turbine, 3,000 kW hydro, 15,451,970 kWh; pur. 256,116,420 kWh; rev. \$20,992,000. (1904)*†⁷

SOUTH NORWALK Elec. Works, State St., Box 400, 06856, 203/866-3366, Larry Rossi, gen. mgr.; 5,249 met.; gen. 15,280 kW oil (eng.), 510,200 kWh; pur. 67,438,629 kWh; rev. \$6,851,342. (1892)*†⁷

WALLINGFORD Elec. Div., 100 John St., 06492, 203/265-1434, Raymond F. Smith, dir. pub. utils.; 19,275 met.; gen. 22,500 kW oil (steam turbine), 877,850 kWh; pur. 453,186,250 kWh; rev. \$31,246,844. (1899)*†⁷

DELAWARE

CLAYTON Mun. Light & Power, 314 Main St., 19938, 302/653-8419, James H. Carson Jr., council pres.; 600 met.; pur. 5,276,673 kWh; rev. \$479,642.⁵

DOVER City of, Elec. Dept., 860 Buttner Place, 19901, 302/736-7070, Thomas L. Darte, elec. dir.; 15,179 met.; gen. 143,000 kW dual-fuel (steam turbine), 371,514,300 kWh; pur. 161,102,000 kWh; rev. \$33,681,375. (1902)*†⁷

LEWES Bd. of Pub. Works, Box 518, 19958, 302/645-6228, Ronald Donovan, gen. mgr.; 2,491 met.; gen. 1,380 kW, 181,000 kWh; pur. 42,684,000 kWh; rev. \$2,844,000. (1901)⁷

MIDDLETOWN Town of, Town Hall, 216 N. Broad St., 19709, 302/378-2711, Charles E. Price, mayor; 1,100 met.; no gen.⁵

MILFORD, City of, 201 S. Walnut St., Box 159, 19963, 302/422-6616, John F. Frederick, city mgr.; 3,837 met.; no gen.; pur. 86,611,803, rev. \$7,046,553. (1918)⁵

NEWARK, City of, 220 Elkton Rd., Box 390, 19715, 302/366-7080, Carl F. Luft, city mgr.; 7,871 met.; no gen.; pur. 219,048,298 kWh; rev. \$14,931,005. (prior to 1914)*†⁷

NEW CASTLE Bd. of Water & Light Comm., 216 Chestnut St., Box 208, 19720-0208, 302/323-2330, Edward J. Murphy, secy.-mgr.; 1,982 met.; no gen.; pur. 19,234,541 kWh; rev. \$1,556,657. (1921)*†⁷

SEAFORD City of, Box 671, 19973, 302/629-9173, Dolores J. Slatcher, city mgr.; 2,766 met.; gen. 7,302 kW oil, eng.; 5,789,200 kWh; pur. 53,596,800 kWh; \$4,353,826.⁵

SMYRNA, Town of, Box 307, 19977, 302/653-9231, Donald Hodge, town mgr.; 2,117 met.; no gen.; pur. 36,475,234 kWh; rev. \$2,936,000. (1893)⁶

FLORIDA

(The area code for communities in Palm Beach, Martin, St. Lucie, Indian River, Oseola, Brevard, Orange and Seminole counties and DeBary will change to 407 on April 16.)

ALACHUA, City of, Box 9, 32615, 904/462-1231, Mark Duchon; 1,631 met.; no gen.; pur. 28,350,300 kWh; rev. \$2,057,658. (1960)*⁵

BARTOW, City of, 450 N. Wilson Ave., 33830, 813/533-0911, James R. O'Connor, city mgr.; 8,774 met.; no gen.; pur. 186 million kWh; rev. \$13,675,548. (1903)⁵

BLOUNTSTOWN, City of, 125 W. Central Ave., 32424, 904/674-5488, Grant Gentry, city mgr.; 1,285 met.; no gen.; rev. \$1,445,834. (1903)⁵

BUSHNELL, City of, 219 N. Market St., Box 115, 33513, 904/793-2591, Lelman Shaw, supt.; 805 met.; no gen.; pur. 22,812,900 kWh; rev. \$1,139,173. (1921)*⁷

CHATTAHOOCHEE, City of, City Hall, Box 188, 32324, 904/663-4046, Millard Hampton, supt.; 1,230 met.; no gen.; sales 39,969,000 kWh; rev. \$2,154,929. (1915)*⁵

CLEWISTON, City of, 115 W. Ventura Ave., 33440, 813/983-9191, C. F. Blair, city mgr.; 3,621 met.; no gen.; pur. 79,701,325 kWh; rev. \$5,701,270. (1942)*⁷

FORT MEADE, City of, 8 West Broadway, Box 856, 33841, 813/285-8191, Leonard Filyaw, dir. of opems.; 2,464 met.; no gen.; pur. 34,286,000 kWh; rev. \$2,479,000. (est. 1920s)*⁷

FORT PIERCE Utils. Authority, 206 S. Sixth St., Box 3191, 33448, 305/464-5600, Harry Schindehette, dir.; 22,659 met.; gen. 105,616 kW gas, 5,500 kW other (steam turbine), 63,594,000 kWh; pur. 417,503,000 kWh; rev. \$32,213,087. (1911)*⁷

GAINESVILLE REGIONAL UTILITIES, Box 490, Station 52, Gainesville, 32602, 904/374-2904, Gerald E. Warren, gen. mgr.; utils.; 53,800 met.; gen. 220,000 kW coal, 159,000 kW gas (steam turbine),

9,900 kW nuclear, 92,000 kW gas (combust. turbine), 1,608,200,000 kWh; pur. 39,124,000 kWh; rev. \$70,284,300. (1912)*†⁷

GREEN COVE SPRINGS, City of, 229 Walnut St., 32043, 904/284-5621, Kim D. Leinbach, city mgr.; 2,229 met.; no gen.; pur. 73,629,966 kWh; rev. \$4,903,894. (1907)*⁷

HAVANA, Town of, Box 1068, 32333, 904/539-6494, C. G. Trippie, town mgr.; 1,201 met.; no gen.; pur. 15,542,400 kWh; rev. \$1,351,761. (1926)*⁷

HOMESTEAD, City of, Util., 790 N. Homestead, 33030, 305/247-1801, Alex Muxo, city mgr.; 13,163 met.; gen. 59,100 kW dual-fuel (eng.), 65,549,980 kWh; pur. 176,018,000 kWh; rev. \$17,924,705. (1926)*⁷

JACKSONVILLE Elec. Authority, 233 W. Duval St., 32202, 904/633-5533, Royce Lyles, mng. dir.; 264,364 met.; gen. 2,238,100 kW oil, 231,600 kW dual-fuel, 472,500 kW other (steam turbines), 473,200 kW oil (combust. turbine), 3,607,311,000 kWh; pur. 3,967,516,905 kWh; rev. \$475,845,093. (1895)*⁷

JACKSONVILLE BEACH, City of, 11 N. Third St., 32250, 904/249-2381, Keith Roberts, dir. elec. util.; 17,226 met.; no gen.; pur. 319,140,000 kWh; rev. \$26,784,000. (1908)*⁶

KEY WEST, City of, Utility Bd., 1001 James St., 33040, 305/294-5272, Robert R. Padron, mgr.; 19,059 met.; gen. 123,300 kW; 82,000 kW oil (steam turbine); 27,500 kW oil (combust. turbine); 13,800 kW oil (eng.); 402,246,800 kWh; rev. \$39,777,925. (1943)*⁶

KISSIMMEE, Util. Authority, Box 2148, 32742-2148, 305/933-7777, James C. Schuster, mgr., fin. & admin.; 22,755 met.; gen. 68,850 kW, 16,350 kW dual-fuel (eng.), 5,000 kW oil (eng.); 47,500 kW dual-fuel (comb. cycle); 97,080,800 kWh; pur. 363,257,000 kWh; rev. \$37,662,079. (1900)*⁷

LAKELAND, City of, Elec. & Water Dept., 1000 E. Parker St., 33801, 813/687-3636, R. G. Siegel, mng. dir.; 76,461 met.; gen. 778,200 kW, 325,000 kW dual-fuel (steam turbine), 334,000 kW coal (steam turbine), 56,850 kW oil (combust. turbine), 5,500 kW oil (eng.); 56,850 kW nuclear; 1,728,234,414 kWh; pur. 370,203,000 kWh; rev. \$106,826,407. (1904)*†⁷

LAKE WORTH, City of, Utilities, 114 College St., 33460, 305/586-1703, J. Claude L'Engle, utils. dir.; 23,690 met.; gen. 32,580 kW oil, 34,000 kW gas, 66,580 kW dual-fuel (steam turbine); 30,800 kW oil (gas combust.

FLORIDA (continued)

turbine), 30,000 kW dual-fuel (comb. cycle); 10,000 kW oil (eng.); 260,364,400 kWh; pur. 148,056,000 kWh; rev. \$25,357,069. (1916)*⁷

LEESBURG, City of, 2010 W. Griffin Road, 32748, 904/787-4252, J. M. Tardugno Jr., elec. supt.; 14,124 met.; gen. 6,496 kW nuclear (steam turbine), 59,979,323 kWh; pur. 291,563,780 kWh; rev. \$17,271,852. (1926)*⁷

MOORE HAVEN, City of, Box 399, 33471, 813/946-0711, Frank E. Birdwell, mayor; 925 met.; no gen.; pur. 11,637,000 kWh; rev. \$1,242,180. (1924)*⁷

MOUNT DORA, City of, Box 176, 32757, 904/383-4221, Arthur Womble, supt.; 4,400 met.; no gen.; pur. 56,410,000 kWh; rev. \$4,886,577. (1922)*⁷

NEWBERRY, City of, Box 369, 32669, 904/472-2161, Blaine Suggs, util. dir.; 765 met.; no gen.; sales 125,869 kWh; rev. \$1,040,417. (1910)*⁵

NEW SMYRNA BEACH, City of, Utils. Comm., 120 Sams Ave., 32069, 904/427-1361, R. Ronald Hagen, dir.; 12,913 met.; gen. 24,266 kW, 4,991 kW nuclear, 14,040 kW oil (eng.), 5,235 kW dual-fuel, (eng.), 27,104,837 kWh; pur. 170,657,000 kWh; rev. \$15,775,715. (1922)*⁷

OCALA Elec. Util., 2100 NE 30 Ave. 32671, Box 1270, 32678, 904/351-6600, Dean G. Shaw, dir.; 34,948 met.; gen. 10,506 kW nuclear; 95,176,183 kWh; pur. 770,051,101 kWh; rev. \$57,436,125. (1893)*⁷

ORLANDO Utils. Comm., 500 S. Orange Ave., 32801, 305/423-9100, T. C. Pope, gen. mgr.; 99,442 met.; gen. 638,800 kW dual-fuel (steam turbine), 2,217,521,000 kWh; pur. 357,327,750 kWh; rev. \$187,997,046. (1923)*⁷

QUINCY, City of, Drawer 941, 32351, 904/627-7681, Otto Roberts, dir. of utils.; 4,186 met.; no gen.; sales 119,530,699 kWh; rev. \$5,315,472. (1904)*⁵

ST. CLOUD, City of, 1300 Ninth St., 32769, 305/892-2161, Ivan S. Stupal, dir. elec. utils.; 9,434 met.; gen. 29,200 kW dual-fuel (eng.), 56,558,000 kWh; pur. 80,214,000 kWh; rev. \$9,349,894. (1916)*⁶

SEBRING Utils. Comm., Box 971, 33871-0971, 813/385-0191, James E. Moothart, gen. mgr.; 10,809 met.; gen. 75,431 kW, 12,650 kW gas (steam turbine), 59,091 kW oil (eng.), 163,575,000 kWh; pur. 19,705,000 kWh; rev. \$14,545,574. (1923)*⁷

STARKE, City of, 209 N. Thompson St., Drawer C, 32091, 904/964-5027, William M. Weldon, elec. system dir.; 2,413 met.; pur. 30,068,800; rev. \$1,154,239. (1890)*⁵

TALLAHASSEE, City of, 300 S. Adams St., 32301, 904/599-8504, B. W. Wait III, dir.; 65,182 met.; gen. 561,752 kW, 15,000 kW oil (steam turbine), 464,250 kW dual-fuel (steam turbine), 11,872 kW nuclear, 73,320 kW dual-fuel (combust. turbine), 12,310 kW hydro, 1,390,735,252 kWh; pur. 175,320,000 kWh; rev. \$93,607,250. (1902)*^{†7}

VERO BEACH, City of, Box 1389, 32961, 305/567-5151, John V. Little, city mgr./util. dir.; 22,300 met.; gen. 130,000 kW, 117,999 kW dual-fuel (steam turbine), 13,000 kW oil (eng.), 80,594,000 kWh; pur. 398,070,000 kWh; rev. \$28,301,500. (1919)*⁷

WAUCHULA, City of, Box 818, 33873, 813/773-3131, Warren May, supt., pub. works; 2,083 met.; gen. 7,250 kW int. combust. eng.; pur. 43,268,000 kWh; rev. \$52,561,644. (1924)*⁵

WILLISTON, City of, Box 160, 32696, 904/528-3060, Donald J. Tanner, util. dir.; 1,230 met.; no gen.; sales 16,711,823 kWh; rev. \$1,432,945.⁵

GEORGIA

ACWORTH City of, 4375 Sen. Russell Sq., 30101, 404/974-3112, Jesse Barker, supt.; 4,000 met.; no gen.; rev. \$1,590,108.⁶

ADEL, City of, Elec. Dept., Box 658, 31620, 912/896-2821, John Flythe, city mgr.; 1,800 met.; no gen.; *⁷

ALBANY Water, Gas & Light Comm., Box 1788, 31707, 912/883-8330, U. W. Rodemann, gen. mgr.; 34,284 met.; no gen.; pur. 861,524,083 kWh; rev. \$42,329,145. (1900)*⁷

BARNESVILLE, City of, 109 Forsyth St., 30204, 404/358-0181, Joanne C. Cannafax, city admin.; 2,332 met.; no gen.; pur. 41,606,000 kWh; rev. \$2,275,851. (1910)*⁷

BLAKELY, City of, Box 350, 31723, 912/723-3677, George Loyd, city admin.; 2,411 met.; no gen. (1929)*⁷

BRINSON, City of, Box 728, 31725, 912/246-5720, Ed Mitchell, mayor;

95 met.; no gen.; pur. 1,501,042 kWh; rev. \$62,317. (1925)*⁵

BUFORD, City of, 30 Garnett St., 30518, 404/945-6761, Earley Biffle, city mgr.; 2,110 met.; no gen.*⁷

CAIRO, City of, Box 29, 31728, 912/377-3653, Dan. A. Wells, city mgr.; 4,272 met.; no gen.; pur. 97,377,879 kWh; rev. \$4,000,405. (1902)*⁵

CALHOUN, City of, Box 924, 30701, 404/629-2276 or 0464, Kelly Cornwell, supt.; 2,748 met.; no gen.; pur. 175,945,243 kWh; rev. \$8,431,823. (1900)*⁵

CAMILLA, City of, Box 328, 31730, 912/336-0331, Jack McDaniel, elec. supt.; 2,224 met.; no gen.; pur. 67,541,219 kWh; rev. \$3,614,336. (1906)*⁷

CARTERSVILLE Elec. System, 320 S. Erwin, Box 648, 30120, 404/382-1171, ext. 237 or 238, Ralph L. Oglesby, elec. supt.; 4,853 met.; no gen.; pur. 286,626,570 kWh; rev. \$13,627,851. (1905)*⁷

CHICKAMAUGA Elec. System, Box 69, 30707, 404/375-3177, John Culpepper, util. and city mgr.; 821 met.; no gen.; pur. 36,448,896 kWh; rev. \$1,677,256. (1963)*⁷

COLLEGE PARK, City of, Elec. System, Box F, 30337, 404/767-1537, Michael McDowell, city mgr.; 11,231 met.; no gen.; pur. 220,533,623 kWh; rev. \$10,975,639. *⁷

COMMERCE, City of, Box 348, 30529, 404/335-3164, Ben Hulsey, actg. city mgr.; 1,879 met.; no gen.; pur. 37,555,554 kWh; rev. \$1,841,179.*⁶

COVINGTON, City of, 2111 Conyers St., Box 1527, 30209, 404/786-5324, Frank B. Turner, city mgr.; 6,741 met.; no gen.; pur. 10,871,890 kWh; rev. \$12,640,652. (est. 1900)*⁷

CRISP COUNTY POWER COMMISSION, Box 1218, Cordele, 31015, 912/273-3811, Frank L. Olson, gen. mgr.; 9,674 met.; gen. 30,500 kW, 12,500 kW coal (steam turbine), 5,000 kW gas turbine, 13,000 kW hydro, 41,340,295 kWh; pur. 185,960,605 kWh; rev. \$10,297,463. (1927)*⁷

DALTON Utilities, Box 869, 30722-0869, 404/278-1313, DeForrest Parrott, gen. mgr.; 10,308 met.; pur. 725,696,992 kWh. (1890)*⁵

DOERUN, City of, 31744, 912/782-5444, J. B. Walters, city mgr.; 500 met.; no gen.; pur. 5,893,000 kWh; rev. \$388,786. (1911)*⁷

DOUGLAS, City of, Box 470, 31533, 912/384-3302, Joe Glen Solomon, supt. elec. dept.; 4,863 met.; no gen.; pur. 152,725,380 kWh; rev. \$8,021,000. (1899)*⁶

EAST POINT, City of, 2777 East Point St., 30344, 404/765-1000, Marshall J. Collins, dir.; 16,660 met.; no gen.; pur. 283,500,000 kWh; rev. \$16,096,000.*⁶

ELBERTON, City of, 234 N. McIntosh St., 30635, 404/283-2575, J. N. Jackson, supt.; 4,229 met.; no gen.; pur. 86.17 million kWh; rev. \$4,524,400. (1895)*⁵

ELLAVILLE, City of, Box 13, 31806, 912/937-2207, Sharon Mowbray, city clerk; 850 met.; no gen.; rev. \$650,000. (1976)*⁵

FAIRBURN, City of, Electrical Dept., 56 Malone St., 30213, 404/964-2244, Alex Howell Sr., city mgr.; 1,858 met.; no gen.; pur. 26,464,286 kWh; rev. \$1,755,622.*⁶

FITZGERALD Water, Light & Bond Comm., Drawer F, 31750, 912/423-2016, Carlton J. Fowler, gen. supt.; 5,433 met.; no gen.; pur. 136,668,978 kWh; rev. \$6,335,394. (1907)*⁶

FORSYTH, City of, 26 N. Jackson St., Box 1447, 31029, 912/994-5649, Guy F. Walker, supt.; 1,974 met.; no gen.; pur. 40,640,738 kWh; rev. \$2,574,744.*⁶

FORT VALLEY, City of, Util. Comm., 400 Anthoine St., Box 1529, 31030, 912/825-7701, Glen Taylor, dir.; 4,373 met.; no gen.; pur. 95,916,485 kWh; rev. \$4,844,377. (1905)*⁷

GRANTVILLE, City of, Box 126, 30220, 404/583-2289, Mrs. J.W. Robertson, city clk.; 442 met.; no gen.; rev. \$188,000.*⁶

GRIFFIN, City of, Box 797, 30224, 404/229-1506, Clifford Hutson, dir., elec. dept.; 11,579 met.; no gen.; pur. 26,339,130 kWh; rev. \$9,585,683. (1895)*⁵

HAMPTON, City of, 30228, 404/946-3228, John L. Maddox, supt.; 950 met.; no gen.; pur. 11,070,487 kWh; rev. \$547,269.⁵

HOGANSVILLE, City of, 400 E. Main St., 30230, 404/637-8629, David Street, supt.; 1,440 met.; no gen.; pur. 16.7 million kWh; rev. \$954,109.*⁵

JACKSON, City of, Box 3838, 30233, 404/775-7535, S. V. Lunsford, elec. dept. supt.; 1,447 met.; no gen.; pur. 29,144,700 kWh; rev. \$1,542,964. (1900)*⁷

LAFAYETTE, City of, Elec. Dept., Box 89, 30728, 404/638-1082, Paul Van Dusen, supt.; 3,423 met.; no gen.; pur. 93,321,208 kWh; rev. \$4,500,000. (1925)*⁷

LA GRANGE, City of, Box 430, 30240, 404/883-2066, C. W. Hughes Jr., dir. of utils.; 11,009 met.; no gen.; pur. 437,326,809 kWh; rev. \$21,212,309. (1900)*⁷

LAWRENCEVILLE, City of, 405 S. Clayton St., 30245, 404/963-2414, Don Martin, mgr.; 5,800 met.; no gen.; pur. 100,787,808 kWh; rev. \$5,407,905. (1920)*⁵

MANSFIELD, Town of, Box 35, 30255, 404/786-7235, Wayne Blackwell, mayor; 216 met.; no gen.; sales 2,693,203 kWh; rev. \$136,466. (1910)*⁷

MARIETTA, Board of Lights & Water Works, 205 Lawrence St., 30062, 404/429-4245, Keith Bass, dir. elec. affairs; 38,799 met.; no gen.; pur. 818,498,502 kWh; rev. \$48,274,237. (1906)*⁷

MONROE Water, Light & Gas Comm., Box 725, 30655, 404/267-3429, John T. Briscoe III, supt.; 4,198 met.; no gen.; pur. 83,695,539 kWh; rev. \$321,698. (1906)*⁸

MONTICELLO, City of, 115 E. Greene St., 31064, 404/468-6062, Marion McElheney, mayor; 1,167 met.; no gen.; pur. 18,602,488 kWh; rev. \$804,004. (1905)*⁷

MOULTRIE, City of, Box 580, 31776, 912/985-1974, Bob Roberson, city mgr.; 6,680 met.; no gen.; pur. 140,471,267 kWh; rev. \$9,081,986. (1898)*⁷

NEWMAN Water, Sewerage & Light Comm., 70 Sewell Rd., Box 578, 30264, 404/253-5516, Carl G. Miller, gen. mgr.; 5,737 met.; no gen.; pur. 87,616,221 kWh; rev. \$5,468,203. (1904)*⁸

NORCROSS, City of, 35 Lawrenceville St., 30071, 404/448-2122, Phillip Floyd, elec. supt.; 3,127 met.; no gen.; pur. 48,378,166 kWh; rev. \$2,882,210. (1929)*⁷

OXFORD, City of, 810 Whatcoat St., Box 207, 30267, 404/786-7004, Fred E. Taylor, mayor; 615 met.; no gen.; pur. 8,710,000 kWh; rev. \$607,152.*⁵

PALMETTO City, 549 Main St., 30268, 404/463-3377, Geraldine Collum, city clk.; 750 met.*⁵

QUITMAN City of, Box 208, 31643, 912/263-4166, Charles Arnold, elec. supt.; 2,441 met.; no gen. (1905)*⁷

SANDERSVILLE, City of, Elec. Dept., Box 71, 31082, 912/552-3475, John D. Everett, city clk.; 2,564 met.; no gen.; pur. 52,713,978 kWh; rev. \$2,771,805. (1907)*⁷

SYLVANIA, City of, Box 555, 30467, 912/564-7411, E. K. Overstreet, city mgr.; 1,900 met.; no gen.; pur. 103,200,000 kWh; rev. \$4,900,000. (1910)*⁷

SYLVESTER, City of, Box 368, 31791, 912/776-8505, Charles Jones, supt.; 2,395 met.; no gen.; pur. 61,798,149 kWh; rev. \$3,437,297. (1903)*⁷

THOMASTON, City of, Box 672, 30286, 404/647-6633, Otis Walker, supt.; 4,014 met.; no gen.; pur. 67,930,532 kWh; rev. \$4,350,290.*⁷

THOMASVILLE, City of, Water & Light Dept., 411 W. Jackson St., Box 1397, 31799, 912/226-3518, Henry O'Quinn, gen. supt.; 14,017 met.; no gen.; pur. 369,697,827 kWh; rev. \$18,484,607. (1906)*⁷

WASHINGTON, City of, Box 9, 30673, 404/678-3277, E. B. Pope, mayor; 2,334 met.; no gen.; pur. 82,617,846 kWh; rev. \$3,841,000. (1897)*⁷

WEST POINT, City of, Box 487, 31833, Joel T. Wood, city admin.; 1,596 met.; no gen.; pur. 24,421,212 kWh; rev. \$1,799,842. (1900)*⁸

WHIGHAM Elec. Dept., Box 71, 31797, 912/762-4114, Keith Sandefur, elec. supt.; 288 met.; no gen.; pur. 5,410,000 kWh; rev. \$326,822. (1908)*⁷

IDAHO

ALBION Light & Water Plant, Box 163, 83311, 208/673-5351, John K. Powell, mayor; 175 met.; no gen.; pur. 3 million kWh. (1916)*⁷

BONNERS FERRY, City of, Box 149, 83805, 208/267-3105, Michael J. Woodward, city admin.; 1,865 met.; gen. 2,440 kW oil-fired eng., 3,950 kW hydro; 27,118,200 kWh; pur. 38,059,700 kWh; rev. \$1,811,348. (1922)*⁷

BURLEY, City of, 2020 Park Ave., Box 1090, 83318, 208/678-2538, Donald R. Hill, utils. dir.; 3,786 met.; no gen.; pur. 104,013,900 kWh; rev. \$3,845,156.*⁷

DEULO City of, Box 146, 83323, 208/654-2124, Nelda Matthews, clerk, 104 met.; no gen.; pur. 3,469,277 kWh; rev. \$121,185. (1910)*⁵

HEYBURN, City of, Box 147, 83336, 208/678-8158, Bob Despain, mgr. elec. dept.; 1,007 met.; no gen.; pur. 73,673,975 kWh; rev. \$2,265,352. (1910)*⁵

IDAHO FALLS, City of, Box 220, 83405, 208/529-1430, Steve Harrison, mgr.; 18,433 met.; gen. 27,000 kW hydro; 148,169,280 kWh; pur. 515,801,399 kWh; rev. \$18,037,294. (1900)*⁷

MINIDOKA, City of, Box 85, 83343, 208/532-4575, Deon Fassett, clerk; 55 met.; no gen.; pur. 1 million kWh. (1924)*⁷

PLUMMER Elec. Dept., 880 C. St., Box B, 83851, 208/686-1422, Clair Heriford, mayor; 696 met.; no gen.; pur. 24,612,000 kWh; rev. \$761,000. (1916)*⁷

RUPERT, City of, 624 F St., Box 426, 83350, 208/436-9608, Frederick A. Davies, mgr., elec. dept.; 2,696 met.; no gen.; pur. 73,090,520 kWh; rev. \$2,626,922. (1919)*⁸

SODA SPRINGS Mun. Power & Light, 9 W. Second S., 83276, 208/547-2151, Roy Rainey, city admin.; 1,100 met.; gen. 535 kW hydro, 3 million kWh; pur. 22 million kWh; rev. \$1.2 million. (1912)*⁸

WEISER, City of, 55 W. Idaho St., 83672, 208/549-1965, Skip Guy, head elec.; 2,475 met.; no gen.; pur. 40,587,000 kWh; rev. \$1,122,120. (1908)*⁸

ILLINOIS

ALBANY, Village of, Elec. Dept., Box 171, 61230, 309/887-4498, Gary Gooch, supt.; 403 met.; no gen.; pur. 4,177,000 kWh; rev. \$195,899.*⁵

ALLENDALE Mun. Util., Box 85, 62410, 618/299-3181, Rick A.

Medler, util. supt.; 287 met.; no gen.; pur. 3,161,164 kWh; rev. \$177,296. (1949)*⁶

ALTMONT, City of, 202 N. Second St., 62411, 618/483-5212, Terry White, elec. supt.; 1,213 met.; no gen.; pur. 16,553,508 kWh; rev. \$1,073,163. (1901)*⁷

BATAVIA, City of, 101 N. Island Ave., 60510, 312/879-1424, William Holm, supt. of elec.; 5,477 met.; no gen.; pur. 114,005,292 kWh; rev. \$9,093,040. (1898)*⁵

BETHANY, Village of, Electric, 201 W. Main, Box 352, 61914-0352, 217/665-3351, Michael W. Collins, util. mgr.; 671 met.; no gen.; pur. 7,198,548 kWh; rev. \$481,698. (1914)*⁷

BREESE Water & Light Dept., 800 N. First St., 62230, 618/526-7151, Martin F. Johnson, supt.; 1,489 met.; gen. 8,900 kW, 2,000 kW oil (steam turbine), 900 kW oil (eng.), 6,000 kW dual-fuel (eng.), 113,780 kWh; pur. 37,679,620 kWh; rev. \$1,526,000. (1906)*⁷

BUSHNELL, City of, Mun. Util., 148 E. Hail St., 61422, 309/772-2029, Mike McCleery, util. mgr.; 1,350 met.; gen. 6,280 kW int. combus. eng.; 148,280 kWh; pur. 23,333,686 kWh; rev. \$1,088,699. (1941)*⁷

CAIRO Pub. Util. Comm., 1100 Commercial Ave., Box 591, 62914, 618/734-3200, Karl H. Klein, gen. mgr.; 2,491 met.; no gen.; pur. 83,616,500 kWh; rev. \$4,460,000. (1947)*⁷

CARLYLE Mun. Util., 850 Franklin, 62231, 618/594-3321, Edward H. Kleber, supt. of utils.; 1,642 met.; gen. 1,050 kW oil (eng.), 5,000 kW dual-fuel (eng.), 48,000 kWh; pur. 27,307,000 kWh; rev. \$1,776,745. (1901)*⁷

CARM, City of, Light & Water, 225 E. Main St., 62821, 618/382-5555, Lawrence Martin, mayor; 3,702 met.; gen. 1,856 kW oil-fired (eng.), 14,805 kW dual-fuel (eng.), 4,096,600 kWh; pur. 50,537,000 kWh; rev. \$3,665,629. (1925)*⁷

CASEY, City of, Box 425, 108 E. Main, 62420, 217/932-4885, John O. Bell, supt. of utils.; 1,830 met.; no gen.; pur. 25,037,035 kWh; rev. \$2,096,925. (1900)*⁵

CHATHAM, Mun. Elec., 117 E. Mulberry, 62629, 217/483-2451, Ed Osman, supt.; 2,300 met.; no gen.; pur. 24,721,200 kWh; rev. \$1,144,362. (1942)*⁵

FAIRFIELD Mun. Light Plant, N.W. 6th St., 62837, 618/842-4821, Ray Smothers, supt.; 3,010 met.; gen.

(backup) 2,700 kW oil-fired, 4,800 kW dual-fuel (eng.). (1898)⁵

FARMER CITY, Mun. Power Plant, East Allen St., 61842, 309/928-3421, Dick Carter, supt.; 1,152 met.; gen. 1,983 kW oil, 5,050 dual-fuel eng.; 10,305,600 kWh; pur. 3,283,060 kWh; rev. \$602,633. (1888)*⁵

FLORA Mun. Light Plant, 62839, Box 249, 618/662-8314, Al Pierson, head lineman.⁵

FREEBURG, Village of, 101 S. Belleville St., 62243, 618/539-3112, Quentin W. Laabs, dir. of services; 1,321 met.; gen. 7,250 kW, 1,645 kW oil, 5,380 kW dual-fuel (eng.); 2,600 kWh; pur. 18,228,000 kWh; rev. \$1,218,149.⁶

GENESEO Mun. Utils., 433 E. North St., 61254, 309/944-5678, Wayne Smithson, supt.; 3,200 met.; gen. 19,600 kW, 1,000 kW oil (eng.); 18,600 kW dual-fuel (eng.); 773,955,000 kWh; pur. 30,984,980 kWh; rev. \$2,938,769. (1933)*⁷

GENEVA, City of, Mun. Elec. System; 2 W. State St., 60134, 312/232-1503, Bill Hinds, supt.; 4,551 met.; no gen.; pur. 113,138,880 kWh; rev. \$8,643,769. (1894)*⁵

GREENUP Light & Power Dept., Box 246, 62428, 217/923-3401, John D. Carr, supt.; 890 met.; no gen. (1954)⁷

HIGHLAND, City of, Box 218, 62249, 618/654-7511, R. Linkenback, dir., light & power; 4,367 met.; gen. 12,000 kW dual-fuel (eng.); 305,000 kWh; pur. 86,080,000 kWh; rev. \$4,574,000. (1899)*⁷

LADD, Village of, Box 305, 61329, 815/894-2351, Clarence Foster, supt.; 588 met.; no gen.; pur. 5,220,300 kWh; rev. \$331,113.⁷

MARSHALL, City of, 708 Archer Ave., 62441, 217/826-2112, George Smith, supt.; 2,067 met.; no gen.; pur. 27,574,826 kWh; rev. \$2,051,934.⁵

MASCOUTAH, City Power & Light Dept., 40 W. Union, 62258, 618/566-2965, Gary Mackey, city mgr.; 2,204 met.; gen. (peaking only) 10,102 kW, 3,500 kW coal, 2,248 kW oil-fired, 4,354 kW dual-fuel, 27,529,000 kWh; rev. \$1,833,028; (1903)⁵

McLEANSBORO Mun. Light & Water Plant, 102 W. Main, 62859, 618/643-2224, William Campbell, supt.; 1,651 met.; pur. 19,317,340 kWh; rev. \$1,222,808. (1897)⁵

METROPOLIS, City of, 106 W. Fifth St., 62960, 618/524-4016 or 4212,

Curtis Lang, light supt.; 3,500 met.; no gen.⁵

NAPERVILLE Elec. Dept., 305 W. Jackson, 60566, 312/420-6181, Victor Marma, dir.; 24,350 met.; no gen.; pur. 488,535,680 kWh; rev. \$36,554,654. (1898)⁷

NEWTON, City of, 108 N. Van Buren, 62448, 618/783-8452, Bob Reynolds, elec. dept. head; 1,695 met.; no gen.; pur. 22,582,519 kWh; rev. \$1,226,206. (1925)⁶

OGLESBY, City of, 128 W. Walnut St., 61348, 815/883-9380, Craig Stickney, supt.; 1,717 met.; no gen.; pur. 18,266,000 kWh; rev. \$959,500. (about 1925)*⁵

PERU, City of, Power Plant, Box 299, 61354, 815/223-0044, Joseph Prazen, supt.; 4,660 met.; gen. 21,550 kW, 7,500 kW coal (steam), 7,500 kW oil (combust. turbine), 6,550 kW oil (eng.); pur. 79,465,500 kWh; rev. \$4,986,000. (1924)*⁷

PRINCETON Mun. Utils., 2 S. Main St., 61356, 815/872-5551, Sharon Mercer, mgr.; 3,512 met.; gen. 38,480 kW dual-fuel eng., 852,000 kWh; pur. 70,560,000 kWh; rev. \$4,564,000. (1900)*⁷

RANTOUL, Light & Power, 200 W. Grove St., 61866, 217/892-2178, Glenn E. Tadlock, supt.; 5,101 met.; 16,832 kW dual-fuel, 3,023,900 kWh; sales 64,371,921 kWh; rev. \$7,257,250. (1898)*⁷

RED BUD, City of, 525 Power St., 62278, 618/282-3339, Ray Mitchell, supt. of utils.; 1,412 met.; gen. 11,016 kW, 1,556 kW oil (eng.); 9,460 kW dual-fuel (eng.); 468,700 kWh; pur. 35,985,804 kWh; rev. \$1,980,536. (1904)⁷

RIVERTON, Village of, 313 E. Jefferson St., 62561, 217/629-9122, Michael Brewer, supt.; 950 met.; no gen.; rev. \$922,162.⁵

ROCHELLE Mun. Utils., 120 N. Seventh St., 61068, 815/562-4155, Michael S. Finn, gen. supt.; 5,552 met.; gen. 30,900 kW, 11,500 kW coal (steam turbine), 19,400 kW dual-fuel (comb. cycle), 60,860,300 kWh; pur. 61,134,600 kWh; rev. \$7,587,369. (1893)*⁶

ROCK FALLS, City of, Elec. Dept., 205 E. Third St., 61071, 815/625-0949, Robert O'Donnell, elec. dir.; 5,080 met.; no gen.; pur. 62,636,882 kWh; rev. \$5,244,000. (1895)*⁷

ROODHOUSE, City of, c/o City Hall, 62082, 217/589-4351, Jim L. Crabtree, mayor; 837 met.; no gen.; pur. 9,412,130 kWh; rev. \$661,705.⁶

ST. CHARLES, Elec. Util., 2 E. Main St., 60174, 312/377-4407, Patrick J. Boyle, dir.; 8,996 met.; no gen.; pur. 238,981,398 kWh; rev. \$17,124,921. (1892)*⁷

SPRINGFIELD City Water, Light & Power, Municipal Bldg., 7th & Monroe Sts., 62704, 217/789-2000, Frank Madonia, comm. of pub. prop.; 55,981 met.; gen. 507,050 kW, 462,860 kW coal (steam turbine), 44,190 kW oil (combust. turbine), 1,257,593,603 kWh; pur. 85,801,000 kWh; rev. \$80,119,577. (1906)*⁷

SULLIVAN, City of, Mun. Utils., 2 W. Harrison St., 61951, 217/728-7622, Bill Harris, line supt.; 2,301 met.; gen. 15,475 kW dual-fuel (eng.); 5,846,400 kWh; pur. 30,528,000 kWh; rev. \$2,101,434. (1927)*⁵

WATERLOO, City of, 104 W. Fourth St., 62298, 618/939-6413, Art Fischer, util supt.; 2,148 met.; gen. 4,598 kW oil, 6,850 kW dual-fuel (eng.); 86,000 kWh; pur. 32.1 million kWh; rev. 1,954,274. (1899)⁵

WINNETKA Elec. Plant, 510 Green Bay Rd., 60093, 312/446-2500, Bryan McInturff, supt.; 4,960 met.; gen. 27,300 kW, 22,500 kW coal, 22,500 kW gas (steam turbine), 4,800 kW oil (eng.); 51,703,870 kWh; pur. 30,889,916 kWh; rev. \$6,649,000. (1900)*⁷

INDIANA

ADVANCE Power & Light, 112 N. Main St., 46102, 317/676-6611; Jack Waggoner, supt.; 259 met.; no gen.; sales 3,025,856 kWh; rev. \$181,000. (1914)⁵

ANDERSON Mun. Light & Power, 550 Baxter Rd., 46018, 317/646-5741, Charles J. Myers, supt.; 33,009 met.; no gen.; pur. 573,601,800 kWh; rev. \$31,987,938. (1897)*⁷

ARGOS Mun. Elec. Util., 119 W. Walnut St., 46501, 219/892-5717, John Archbeault, interim supt.; 826 met.; no gen.; pur. 20,041,228 kWh; rev. \$1,683,080. (1897)⁷

AUBURN, Elec. & Water Dept., corner Cedar & Ninth Sts., 46706, 219/925-5430, Stuart Tuttle, elec. supt.; 4,569 met.; no gen.; pur. 214,379,000 kWh; rev. \$12,047,657. (1900)⁷

AVILLA Mun. Elec. Util., 117 S. Main St., Box 49, 46710-0049, 219/897-2781, Paul Bolinger, supt.; 588 met.; no gen.; pur. 10,887,200 kWh; rev. \$604,845. (1912)⁷

BAINBRIDGE Mun. Elec., Box 343, 46105, 317/522-6238, James Nelson, supt.; 335 met.; no gen.; pur. 3,428,800 kWh; rev. \$206,050. (1915)⁷

BARGERSVILLE Power & Light, Box 420, 46106, 317/422-5115, Joe M. Harrod, supt.; 1,708 met.; no gen.; pur. 24,645,600 kWh; rev. \$1,538,603. (1921)*⁵

BLUFFTON Utils., 128 E. Market St., 46714, 219/824-2500, Edward C. Davis, supt., elec. and wtr. depts.; 4,455 met.; gen. 7,000 kW dual-fuel (eng.); 4,043,000 kWh; pur. 114,167,200 kWh; rev. \$6,750,423. (1889)⁷

BOONEVILLE Mun. Elec. Plant, 135 S. Second St., 47601-0508, 812/897-0140, Charles Davis, supt.; 3,300 met.; no gen.; rev. \$3,130,878.⁵

BREMEN Elec. Light & Power Co., 123 S. Center St., 46506, 219/546-4324, Dudley A. Keyser, dir. of oper.; 1,856 met.; no gen.; pur. 55,209,264 kWh; rev. \$3,812,140. (1895)*⁷

BROOKLYN Mun. Util., 10 S. Main, 46111, 317/831-3343, Rick Hobious, supt.; 348 met.; no gen.; rev. \$204,153.⁵

BROOKSTON Mun. Elec., 205 E. 3rd St., 47923, 317/563-3171, Max L. Eldridge, supt.; 770 met.; no gen.; pur. 1,025,400 kWh; rev. \$827,565. (1916)⁶

CANNELTON Utils., 610 Washington St., 47520, 812/547-7919, Tim Hafele, gen. mgr.; 912 met.; no gen.; pur. 16,430,200 kWh; rev. \$248,279. (1941)⁵

CENTERVILLE Power & Light, Box 125, 47330, 317/855-5515, James Bowen, mgr.; 1,243 met.; no gen.; pur. 17,616,000 kWh; rev. \$790,454. (1913)*⁵

CHALMERS Elec. Util., Box 827, 47929, 219/984-5494, Jerry L. Thompson, town bd. pres.; 309 met.; no gen.; pur. 3,070,200 kWh; rev. \$293,484. (1915)⁷

COATESVILLE, Town of, Mun. Light and Power, Box 143, 46121, 317/386-7205, James Rollings, plant mgr.; 275 met.; no gen.; pur. 3,306,000 kWh; rev. \$87,729. (1912)⁷

COLUMBIA CITY Mun. Elec. Util., City Hall, S. Chauncey St., 46725, 219/244-5141, Harold Sheets, supt.; 3,734 met.; no gen.; pur. 77,856,000 kWh; rev. \$4,518,377.⁷

COVINGTON Elec. Dept., 413 Washington St., 47932, 317/793-2331, Eugene Smail, mayor; 1,430 met.; no

gen.; pur. 21,333,600 kWh; rev. \$1,199,805. (1913)*⁷

CRAWFORDSVILLE Elec. Light & Power, Box 428, 47933, 317/362-1900, Roy E. Kaser, mgr.; 7,895 met.; no gen.; pur. 24,150 kW coal (steam turbine), 79,953,600 kWh; pur. 261,819,960 kWh; rev. \$15,252,803. (1890)*[†]

DARLINGTON Light & Power Co., 104 S. Franklin St., 47940-0125, 317/794-4496, Richard Smith, supt.; 564 met.; no gen.; pur. 6,616,025 kWh; rev. \$411,954. (1919)*⁶

DUBLIN Mun. Elec., Box 145, 47335, 317/478-4878, Monica V. Davis, clerk-treas.; 448 met.; no gen.; pur. 4,151,680 kWh; rev. \$241,992. (1920)⁷

DUNREITH Elec. Dept., Box 282, 47337, 317/987-7474, Shelby Linville, clerk-treas.; 200 met.; no gen.; pur. 1,097,600 kWh; rev. \$74,931.⁵

EDINBURGH Mun. Elec. Util., 107 S. Holland St., 46124, 812/526-2919, Betty M. Essex, town mgr.; 2,239 met.; no gen.; pur. 57,307,200 kWh; rev. \$3,027,000. (1898)*⁷

ETNA GREEN Elec. Dept., Box 183, 46524, 219/858-9321, Loren L. Melton, supt.; 325 met.; no gen.; pur. 3,073,539 kWh; rev. \$281,047. (1890)⁷

FERDINAND Mun. Elec. Dept., W. Fifth St., Box 7, 47532, 812/367-1011, James R. Meyer, supt.; 730 met.; no gen.; pur. 12,500,000 kWh; rev. \$629,918. (1922)⁵

FLORA Elec. Util., 27 W. Main, 46929, 219/967-4844, Charles Everett, util. mgr.; 1,176 met.; no gen.; pur. 24,369,744 kWh; rev. \$1,124,519. (1946)*⁵

FRANKFORT City Light & Power, Box 458, 46041, 317/659-3362, Thomas E. Donoho, supt.; 8,785 met.; pur. 195,000,000 kWh; rev. \$9,600,000. (1902)*⁵

FRANKTON, Town of, 106 Church St., 46044, 317/754-7285, Don Cook, supt.; 1,021 met.; no gen.; sales 13,131,155 kWh; rev. \$829,888. (1900)*⁷

GARRETT, City of, Mun. Elec. Util., Box 120, 46738, 219/357-4400, David N. Conkle, supt.; 2,500 met.; no gen.; pur. 40,000,000 kWh; rev. \$1,450,000. (1896)⁶

GAS CITY Light Dept., 211 E. Main, 46933, 317/674-6995, Joe Mitsch, utils. supt.; 2,592 met.; no gen.; pur.

44,219,200 kWh; rev. \$2,523,652.*⁷

GREENDALE Utils., 510 Ridge Ave., Lawrenceburg, 47025, 812/537-2125, F. R. Rudolph, supt.; 1,787 met.; no gen.; pur. 73,156,000 kWh; rev. \$3,368,165. (1934)*⁷

GREENFIELD Mun. Elec. Util., 110 S. State St., 46140, 317/462-8540, Keith J. McClarnon, mayor; 4,967 met.; no gen.; sales 87,092,000 kWh; rev. \$4,425,865. (1898)*⁷

HAGERSTOWN, Town of, Elec. Util., 49 E. College St., 47346, 317/489-5132, Ron Roach, supt.; 1,200 met.; no gen.; pur. 19,000,000 kWh; rev. \$1,003,000. (1923)⁵

HUNTINGBURG Mun. Elec. Util., 511 Fourth St., 47542, 812/683-2211, Loma Wm. Hartke, supt.; 2,708 met.; no gen.; pur. 52,464,000 kWh; rev. \$2,578,000.*⁶

JAMESTOWN Mun. Light & Power, Box 165, 46147, 317/676-6331, Wayne D. Henry, supt.; 415 met.; no gen.; pur. 5,884,800 kWh; rev. \$326,542. (1917)*⁶

JASPER Mun. Elec. Util., Box 150, 47546, 812/482-3003, Gordon Houchin, elec. mgr.; gen. 14,500 kW coal (steam turbine), 76,974,100 kWh; pur. 125,022,000 kWh; rev. \$8,816,600. (1904)⁷

KINGSFORD HEIGHTS, Town of, Mun. Elec. Util., 504 Grayton Rd., 46346, 219/393-3309, Ron Cooper, supt.; 512 met.; no gen.; pur. 4,735,835 kWh; rev. \$382,998. (1964)⁵

KNIGHTSTOWN Elec. Util., 26 S. Washington St., 46148, 317/345-5977, William Jack Shore, town bd. pres.; 1,564 met.; no gen.; pur. 17,670,400 kWh; rev. \$946,477. (1894)⁶

LADOGA Light and Power, 121 E. Main, Box 187, 47954, 317/942-2531, James Cross, supt. of utils.; 591 met.; no gen.⁵

LAWRENCEBURG Mun. Utils., 405 Main St., Box 112, 47025, 812/537-2420, Roland Horney, dir. of utils.; 2,600 met.; no gen.; pur. 68,563,890 kWh; rev. \$3,589,488.*⁷

LEBANON, City of, Utils., 201 E. Main St., Box 479, 46052, 317/482-5100, James B. Nelson, mgr.; 5,579 met.; no gen.; pur. 108,900,000 kWh; rev. \$5,453,192. (1942)*⁷

LEWISVILLE Mun. Light Dept., Box 288, 47352, 317/987-7979, Jim Thompson, supt.; 226 met.; no gen.⁵

LINTON Mun. Utils., 49 N.W. "A" St., 47441, 812/847-4971, Robert Lemonds, mgr.; 3,424 met.; no gen.; pur. 52,524,000 kWh; rev. \$2,969,591. (1912)*⁷

LOGANSPOUT Mun. Util., City Bldg., 46947, 219/753-6231, K. W. Hemberger, supt.; 12,141 met.; gen. 56,400 kW, 17,900,000 kW dual-fuel (combustion turbine), 38,500 kW coal (steam turbine); 68,344,600 kWh; sales 251,111,065 kWh; rev. \$15,385,764.*⁷

MIDDLETOWN Elec. Util., 102 N. Fifth St., 47356, 317/354-2911, Richard Westrafer, supt.; 1,250 met.; no gen.; pur. 15,434,400 kWh; rev. \$806,721. (1911)*⁶

MISHAWAKA Mun. Utils., 126 N. Church St., 46544, 219/258-1644, Roger W. Bock, gen. mgr.; 20,258 met.; no gen.; pur. 333,201,000 kWh; rev. \$20,992,702. (1904)*[†]

MONTEZUMA Mun. Utils., 1235 N. Jackson, 48762, 317/245-2759, Robert Allen, supt.; 675 met.; no gen.; pur. 7,008,496 kWh.⁵

NEW CARLISLE Mun. Utils., 113 S. Arch St., Box 6, 46552, 219/654-7554, Dennis Damp, elec. supt.; 657 met.; no gen.; pur. 7,718,400 kWh; rev. \$406,000. (1905)⁶

NEW ROSS Elec. Service Dept., Box 156, 47968, 317/723-1154, Rebecca L. Lowe, clk.-treas.; 208 met.; no gen.; pur. 1,998,400 kWh; rev. \$120,160.⁵

PAOLI Water & Light Dept., Mun. Bldg., 47454, 812/723-2739, Herbert Bostock, supt.; no gen.*⁵

PENDELTON Municipal, 119 W. State St., Box 230, 46064, 317/778-2173, Jack Guard, town mgr.; 1,560 met.; no gen.; pur. 25,399,200 kWh; rev. \$1,330,642. (1911)*⁷

PERU Utils., 335 E. Canal St., Box 67, 46970-0067, 317/473-6682, Dwight D. Langer, gen. mgr.; 10,059 met.; gen. 32,500 kW coal (steam turbine), 52,887,000 kWh; pur. 166,977,000 kWh; rev. \$8,058,038. (1903)*⁷

PITTSBORO Mun. Light Plant, Box 185, 46167, 317/892-3326, Charles Water, supt.; 399 met.; no gen.⁵

RENSSELAER Elec. Mun. Util., 122 S. Van Rensselaer St., 47978, 219/866-8475, Joel D. Roper, city engr.; 2,573 met.; gen. 14,120 kW oil (eng.), 167,718 kWh; pur.

54,904,546 kWh; rev. \$4,576,207. (1896)*⁶

RICHMOND Power and Light, Box 908, 47374, 317/935-3131, Irving A. Huffman, gen. mgr.; 20,002 met.; gen. 93,000 kW coal (steam turbine), 441,511,760 kWh; pur. 179,946,000 kWh; rev. \$27,812,724. (1902)*⁷

RISEING SUN Mun. Utils., 301 S. Poplar St., Box 38, 47040, 812/438-3616, Gerald B. White, supt.; 1,288 met.; no gen.; pur. 18,903,500 kWh; rev. \$1,053,991. (1939)*⁷

ROCKVILLE, Town of, 103 W. High St., Box 143, 47872, 317/569-3569, Ray Shelton, town supt.; 1,793 met.; no gen.; pur. 22,680,800 kWh; rev. \$1,221,244.⁷

SCOTTSBURG Mun. Elec. Light Dept., 2 E. McClain, 47170, 812/752-4343, Herbert Robison, supt.; 3,000 met. (est. 1902)*⁶

SOUTH WHITLEY Mun. Elec., 202 East-Front St., Box 372, 46787, 219/723-4741 or 5312, Robert Kneller, supt.; 867 met.; no gen.; pur. 16,484,800 kWh; rev. \$851,143. (1895)*⁵

SPICELAND Mun. Light Plant, 130 E. Main, 47385, 317/987-1211, Patsy Dobbs, city clk.; 550 met.; no gen.⁵

STRAUGHN Mun. Elec. Plant, Box 427, 47387, 317/332-2828, Eldon Sons, supt.; 170 met.; no gen.; pur. 1,072,800 kWh; rev. \$51,743.⁷

TELL CITY Elec. Dept., Box 9, 700 Main St., City Hall, 47586, 812/547-3411, Jack M. Joyce, supt.; 4,189 met.; no gen.; pur. 110,484,000 kWh; rev. \$5,365,204. (1941)*[†]

THORNTOWN Utils., 109 W. Main St., 46071, 317/436-2627, O. Jack Hutchens, supt.; 730 met.; no gen.; rev. \$456,178. (1951)⁶

TIPTON Mun. Elec. Util., 225 E. Jefferson St., 46072, 317/675-7629, Noel C. Oise, util. mgr.; 3,733 met.; no gen.; pur. 76,867,200 kWh; rev. \$3,974,838. (1901)*[†]

TROY Utils., Box 57, 47588, 812/547-7501, Charles Kuntz, supt.; 320 met.; no gen.; pur. 4,870,800 kWh; rev. \$261,523. (1941)⁵

VEEDERSBURG Mun. Elec. Util., 118 Railroad Ave., 47987, 317/294-2728, Jackie Sullivan, supt.; 1,024 met.; no gen.; pur. 11,473,600 kWh; rev. \$608,679. (1898)⁵

WALKERTON Elec. Dept., 510 Roosevelt Rd., 46574, 219/586-3711, Jollie Back, supt. of utils.; 1,150

INDIANA (continued)

met.; no gen.; pur. 20,458,116 kWh; rev. \$1,867,274. (1906).⁷

WARREN Mun. Elec., Box 477, 46792, 219/375-2656, Charles Booher, supt.; 700 met.⁷

WASHINGTON Mun. Elec. Util., Box 800, 47501, 812/254-6206, Bob Norris, util. ofc. mgr.; 6,799 met.; no gen.; pur. 124,411,392 kWh; rev. \$6,031,836. (1926)*⁷

WAYNETOWN Elec. Dept., Box 215, 47990, 317/234-2154, Richard Peterman, supt.; 460 met.; no gen.; pur. 4,558,800 kWh; rev. \$265,495.⁷

WILLIAMSPORT Elec. Util., Town Hall, 29 N. Monroe St., 47993, 317/762-3257, Jim Ottinger, city clk. (1899)⁵

WINAMAC Mun. Light & Power, 120 Main St., 46996, 219/946-3451, A. Allen Boos, mgr.; 1,610 met.; no gen.; sales 32,485,056 kWh; rev. \$3,068,040. (1895)*⁵

IOWA

AFTON Mun. Elec., City Hall, 101 W. Kansas, 50830, 515/347-5578, Bob Fisher, elec. supt.; 426 met.; no gen.; pur. 5,164,800 kWh; rev. \$343,743.⁷

AKRON, City of, Box 85, 51001, 712/568-2041, Robert Borchers, dir. of pub. wks.; 794 met.; pur. 11,041,273 kWh; rev. \$390,454. (1921)*⁵

ALGONA Mun. Utils., 104 W. Call St., 50511, 515/295-3584, Nicholas R. Scholer, gen. mgr.; 3,522 met.; gen. 27,500, 15,000 kW coal, 12,500 kW oil (eng.); 93,443,344 kWh; pur. 65,905,044 kWh; rev. \$4,396,415 (1898)*⁷

ALTA Mun., 223 Main St., 51002, 712/284-2206, Ronald L. Deiber, supt.; 904 met.; gen. 1,250 kW oil (comb. cycle, test only); pur. 12,028,044 kWh; rev. \$461,486. (1893)*⁷

ALTA VISTA Elec. Dept., City Hall, 50603, 515/364-6732, Charles E. Lukritz, mayor; 256 met.; no gen.; pur. 2,107,800 kWh; rev. \$145,157.⁷

ALTON Mun. Light & Power, 905 Third Ave., Box J, 51003, 712/756-4314, Jeff Bechtold, pub. works dir.; 543 met.; no gen.; pur. 7,881,339 kWh; rev. \$363,547. (1968)*⁷

AMES Mun. Elec. System, 502 Carroll, 50010, 515/239-5171, Merlin C. Moore, dir.; 14,758 met.; gen. 111,000 kW oil (eng.), 94,000 kW coal (steam), 16,000 kW gas turbine,

1,000 kW eng., 194,887,380 kWh; pur. 76,249,000 kWh; rev. \$17,325,710. (1896)*⁷

ANITA Mun. Utils., 828 Main St., 50020, 712/762-3845, Edward J. Brownsberger Jr., supt.; 600 met.; gen. 747 kW oil (eng.-standby), 3,600 kWh; pur. 7,532,464 kWh; rev. \$257,665. (1939)⁷

ANTHON, City of, 301 E. Main, 51004, 712/373-5218, Robert L. Kindig, supt.; 394 met.; no gen.; pur. 4,751,307 kWh; rev. \$322,609. (1976)⁷

APLINGTON Mun. Light System, 927 Parrott, 50604, 319/347-2425, Timothy Ubben, supt.; 488 met.; no gen.; rev. \$271,000.⁵

ATLANTIC Mun. Utils., 15 W. 3rd St., Box 517, 50022, 712/243-1395, Richard J. Stevens, supt.; 4,358 met.; gen. 26,650 kW, 17,500 kW coal, 5,000 kW dual-fuel (steam turbine), 4,150 kW dual-fuel (eng.), 70,476,900 kWh; pur. 39,381,710 kWh; rev. \$4,035,419. (1908)*⁷

AUBURN Mun. Elec. Util., Box 238, 51433, 712/688-7734, Larry R. Finley, mayor; 179 met.; no gen.; pur. 1,660,500 kWh; rev. \$118,530.⁵

AURELIA Mun. Elec. Util., 235 Main St., 51005, 712/434-2025, Edmund Radke, trustee chmn.; 567 met.; no gen.; pur. 6,587,364 kWh; rev. \$426,493. (1974)⁵

BANCROFT Mun. Util., 108 N. Portland, 50517, 515/885-2772, Tracey Elliott, supt.; 576 met.; gen. 15,000 kW oil, 15,700 kWh (standby); pur. 9,898,064 kWh; rev. \$538,616. (1939)*⁵

BELLEVUE Mun., 900 N. Riverview, 52031, 319/872-3357, Ray Beschen; 1,400 met.; gen. 5,320 kW oil-fired eng., 47,800 kWh; pur. 14,899,100 kWh; rev. \$1,107,195. (1896)⁵

BLOOMFIELD, City of, Mun. Light Plant, 111 W. Franklin St., 52537, 515/664-2260, Mike Irven, pub. wks. dir.; 1,475 met.; gen. 8,570 kW, 7,970 kW dual-fuel (eng.), 600 kW oil (eng.); 47,610 kWh; pur. 24,821,000 kWh; rev. \$1,340,655. (1911)⁵

BREDA Mun. Utils., 118 Main St., 51436, 712/673-4221, Jim Ulveling, mgr.; 272 met.; no gen.; pur. 3,095,761 kWh; rev. \$141,083.⁷

BROOKLYN Mun. Elec. Plant, 207 Front St., 52211, 515/522-9292, Dale Hawkins, mgr.; 802 met.; gen. 2,424 kW eng.; pur. 9,826,100 kWh; rev. \$424,983. (1940)⁵

BUFFALO, Mun. Dist. & Light System, 409 3rd St., 52728, 319/381-2226,

Ralph Jewett, pub. wks. dir.; 500 met.; no gen.; pur. 3,776,960 kWh; rev. \$286,933.⁷

BURT Mun. Elec. Util., 119 Walnut St., Box 128, 50522, 515/924-3618, James H. Redemske, supt.; 295 met.; no gen.; pur. 3,621,485 kWh; rev. \$233,991. (1920)⁵

CALLENDER, City of, 414 Thomas St., 50523, 515/548-3859, Craig Hanson, 183 met.; no gen.; pur. 1,762,000 kWh; rev. \$129,306. (1965)⁵

CARLISLE Mun. Utils., 115 School St., Box 430, 50047, 515/989-3224, Bruce Johnson, elec. supt.; 1,442 met.; no gen.; pur. 15,063,000 kWh; rev. \$837,598. (1931)*⁷

CASCADE Mun. Utils., 201 Pierce S.W., 52033, 319/852-3614, Fred A. Kremer, gen. mgr.; 867 met.; gen. 3,557 kW dual-fuel (eng.), 121,390 kWh; pur. 10,944,756 kWh; rev. \$635,526. (1940)⁷

CEDAR FALLS Utils., 612 E. Twelfth St., 50613, 319/266-1761, Dean Crowe, gen. mgr.; 14,050 met.; gen. 106,500 kW, 86,500 kW dual-fuel (steam turbine), 20,000 kW dual-fuel (combust. turbine), 181,152,300 kWh; pur. 103,688,600 kWh; rev. \$12,720,334. (1913)*⁷

COGGON Mun. Light Plant, 131 W. Main St., 52218, 319/435-2436, Robert L. Farley, supt.; 345 met.; gen. 1,090 kW oil-fired eng., 74,760 kWh; pur. 3,058,040 kWh; rev. \$225,485. (1927)⁵

COON RAPIDS Mun. Utils., 123 3rd Ave., Box 207, 50058, 712/684-2225, Eugene P. Smith, mgr.; 779 met.; gen. 2,590 kW oil (combust. turbine); pur. 26,708,727 kWh; rev. \$948,112. (1936)*⁷

CORNING Mun. Utils., 501 Benton Ave., 50841, 515/322-3920, Dean R. Davis, mgr.; 1,150 met.; gen. 6,362 kW oil (standby), 13,840 kWh; pur. 15,813,689 kWh; rev. \$512,274. (1936)*⁷

CORWITH Elec. Dept., 50430, 515/583-2342, Tim Berhow, supt.; 291 met.; no gen.⁵

DANVILLE Municipal Water, 105 W. Shepherd St., 52623, 319/392-4685, Allen W. Schillie, 412 met.; no gen. pur. 4,901,400, rev. \$250,761.⁷

DAYTON Light & Power, 101 S. Main, 50530, 515/547-2711, Shirley B. Miller, city clk.; 466 met.; gen. 318 kW oil-fired eng.; 1,065 kW dual-fuel eng.; pur. 4,736,441 kWh; rev. \$239,704.⁵

DENISON Mun. Utils., Box 518, 51442, 712/263-4154, Brad Roos, gen. mgr.; 3,165 met.; gen. 1,360 kW (standby), pur. 108,051,000 kWh; rev. \$3,302,096. (1914)*⁷

DENVER City of, Elec. Util., 107 N. State St., City Hall, 50622, 319/984-5642, Larry Zars, city electr., 750 met.; no gen.; pur. 8,361,600 kWh; rev. \$527,991.⁵

DIKE, City of, 540 Main St., 50624, 319/989-2291, Donald E. Knudsen, mayor; 409 met.; no gen.; pur. 4,753,800 kWh; rev. \$332,438.⁷

DURANT Mun. Elec. Plant, 601 Fourth St., 52747, 319/785-6213, Greg A. Christensen, supt.; 792 met.; gen. 3,788 kW, 1,718 kW oil (eng.), 2,070 kW dual-fuel (eng.), 39,200 kWh; pur. 12,562,982 kWh; rev. \$729,866. (1942)*⁷

DYSART, Mun. Util., 436 Main St., 52224, 319/476-5690, Harold M. Langbehn, supt. of pub. works; 781 met.; no gen.; pur. 8,102,400 kWh; rev. \$478,803.⁷

EARLVILLE Light & Water System, Box 67, 52041, 319/923-3365, Vincent D. Herman, supt.; 440 met.; no gen.; pur. 3,090,224 kWh; rev. \$197,359. (1916)⁵

ELDRIDGE Elec. & Water Util., 214 N. 2nd St., 52748, 319/285-4841, Dorothy Beert; 1,190 met.; no gen.; pur. 17,559,668 kWh; rev. \$1,363,664. (1900)⁵

ELLSWORTH Mun., 1551 DeWitt St., 50075, 515/836-4751, Raymond L. Anderson, supt.; 249 met.; no gen.; pur. 2,523,600 kWh; rev. \$150,358.⁵

ESTHERVILLE Mun. Elec. Util., 2 North 7th, 51334, 712/362-7771, Steve Woodley, city admin.; 3,434 met.; gen. 16,250 kW, 3,450 kW oil-fired eng., 12,800 kW dual-fuel eng., 258,100 kWh; pur. 44,293,000 kWh; rev. \$2.8 million. (1894)⁵

FAIRBANK, City of, Box 447, 50629, 319/635-2869, Ted Vorwald, supt.; 520 met.; no gen.; pur. 4,659,600 kWh; rev. \$319,669. (1920)⁵

FARNHAMVILLE Elec. Dept., Box 206, 50538, 515/544-3660, Dennis Jacobson, supt.; 243 met.; no gen. (1916)⁵

FONDA Mun. Utils., City Hall, 50540, 712/288-6618, Phyllis Ballard, city clk.; 394 met.; no gen.⁵

FONTANELLE, City of, 313 Washington St., 50846, 515/745-3961, Delmer D. Miller, supt.; 443 met.; no gen.; pur. 5,713,060 kWh; rev. \$222,495. (1914)*⁷

FOREST CITY, City of, 305 N. Clark St., 50436, 515/582-4597, Michael

L. Johnson, city admin., 2,000 met.; gen. 14,310 oil-fired diesel (eng.); 585,000 kWh; pur. 62,078,000 kWh; rev. \$3.1 million. (1939)*†

FREDERICKSBURG, City of, Elec. Util., 151 West Main St., 50630, 319/237-5725, Duane Stanton; 525 met.; no gen.; pur. 28,432,000 kWh; rev. \$1,356,120. (1915)*

GLIDDEN, City of, Mun. Util., 108 Idaho St., Box 349, 51443, 712/659-3010, Grace A. Thornton, city clerk; 563 met.; no gen.; pur. 7,299,327 kWh; rev. \$271,846. (1911)*

GOWRIE Mun. Utils., Box 47, 1102 Main St., 50543, 515/352-3065, Donald G. Borgen, supt.; 608 met.; gen. 3,600 kW oil (eng.), 11,300 kWh, pur. 6,574,331 kWh; rev. \$430,180. (1934)*

GRAETTINGER Mun. Utils., Box 178, 51342, 712/859-3844, Steve Helmke, supt.; 557 met.; gen. 845 kW oil-fired eng.; pur. 7,090,600 kWh; rev. \$262,767. (1941)*†

GRAFTON Elec. Dept., Box 263 50440, 515/748-2961, Chloe Ann Beyer, city clerk; 150 met.; no gen.; sales 1,608,513 kWh; rev. \$105,238.*

GRAND JUNCTION Mun. Light & Water, 305 S. Eleventh St., 50107, 515/738-2285, Eleanor Krieger, city clk.; 523 met.; gen. 560 kW dual-fuel eng., 47,850 kWh; pur. 4,878,000 kWh; rev. \$465,693. (1932)*

GREENFIELD Mun. Utils., Box 95, 50849, 515/743-2914, Duane Armstead, supt.; 1,341 met.; gen. 6,085 kW, 3,000 kW oil-fired (eng.), 3,085 kW dual-fuel (eng.), 71,000 kWh; pur. 17,873,230 kWh; rev. \$1,121,290. (1890)**

GRUNDY CENTER Mun. Light & Power, 506 Seventh St., Box 307, 50638, 319/824-5207, Edward (Bob) Ayers, gen. mgr.; 1,409 met.; gen. 5,750 kW dual-fuel (eng.), 57,550 kWh; pur. 21,464,687 kWh; rev. \$1,318,021. (1941)*†

GUTTENBERG, City of, 502 S. First St., Box D-1, 52052, 319/252-1161, Larry D. Krones, city mgr.; 1,193 met.; no gen.; pur. 13,517,700 kWh; rev. \$881,750.*†

HARLAN Mun. Util., 405 Chatburn Ave., Box 71, 51537, 712/755-5182, F. James Kalaf, gen. mgr.; 2,719 met.; gen. 691,390 kW, 685,000 kW coal (steam turbine); 6,390 kW oil (eng.), 9,456,487 kWh; pur. 37,044,089 kWh; rev. \$2,593,919. (1891)**

HARTLEY Mun. Utils., 169 S. Central Ave., 51346, 712/728-2240, Dean E. Meyer, supt. pub. works; 903 met.;

gen. 1,700 kW eng. (standby); 3,600 kWh; pur. 15,831,146 kWh; rev. \$533,122. (1908)*†*

HAWARDEN, Mun. Elec., 700 Seventh St., 51023, 712/552-2565, Larry Milroy, supt. pub. wks.; 1,309 met.; gen. 2,450 kW dual-fuel (eng.-standby); pur. 15,692,007 kWh; rev. \$720,927. (1894)*†*

HINTON Elec. System, 205 W. Main St., 51024, 712/947-4732, William Farmer, maint. supt.; 243 met.; no gen.; pur. 3,304,520 kWh; rev. \$253,029. (1910)*

HOPKINTON Mun. Utils., Box 129, 52237, 319/926-2480, Robert W. Sewell, supt.; 367 met.; gen. 2,886 kW oil (eng.), 18,190 kWh; pur. 8,171,340 kWh; rev. \$582,218. (1937)*

HUDSON Mun. Utils., 329 Fifth St., 50643, 319/988-3600, Rick Andorf, supt.; 780 met.; no gen.; pur. 12 million kWh; rev. \$800,000. (1910)*

HULL, City of, 920 Main, 51239, 712/439-1521, Lawrence VanderEsch, city admin. On Oct. 13, 1987, Hull citizens voted 809-70 to establish a public power system in territory now served by Iowa Public Service Co.

INDEPENDENCE Mun. Light Plant, 711 Seventh Ave. N.E., Box 754, 50644, 319/334-3880, Jerry L. Barske, mgr.; 3,098 met.; gen. 12,950 kW, 10,950 kW dual-fuel (eng.), 2,000 kW oil (eng.), 237,000 kWh; sales 39,087,229 kWh; rev. \$2,677,290. (1920)*†

INDIANOLA Mun. Utils., 111 S. Buxton, Box 445, 50125, 515/961-5810, Roger A. Wood, gen. mgr.; 4,701 met.; gen. 34,732 kW, 20,600 kW oil (combust. turbine), 800 kW oil, 13,332 kW dual-fuel (comb. cycle) 157,400 kWh; pur. 68,943,000 kWh; rev. \$4,152,282. (1891)*†

IOWA STATE UNIVERSITY, Facilities Planning and Management, Ames 50011, 515/294-8079, William W. Whitman, assoc. v.p. for facilities, 2,000 met., 33 MW (coal).*

KEOSAUQUA Light Plant, Box 216, 52565, 319/293-3406, Donald Carruthers, supt.; 729 met.; gen. 1,040 kW eng.; pur. 9.6 million kWh; rev. \$512,658.*

KIMBALLTON Mun. Light Plant, 51543, 712/773-3451, Lloyd A. Petersen, supt.; 205 met.; gen. 450 kW eng.; pur. 2,198,310 kWh; rev. \$89,101. (1921)*†*

LAKE MILLS Mun. Utils., 201 S. Mill St., 50450, 515/592-2441, Donald F. Wirt, dir. of util.; 1,076 met.; gen. 11,500 kW, 5,260 kW (dual-fuel)

eng., 6,240 oil (eng.) 107,500 kWh; pur. 20,867,852 kWh; rev. \$1,059,018. (1932)**

LAKE PARK Mun. Utils., 204 Market St., Box 536, 51347, 712/832-3667, Brad Brinkman, mgr.; 546 met.; gen. 1,000 kW oil (eng.-standby); pur. 7,248,000 kWh; rev. \$358,000. (1947)*†*

LAKE VIEW, City of, 305 Main St., 51450, 712/657-2212, Eugene G. Meyers, dir. of ops.; 1,256 met.; no gen.; pur. 16,375,057 kWh; rev. \$583,115. (1915)*

LAMONI Mun. Utils., 111 S. Chestnut St., 50140, 515/784-6911, Robert Moore, supt. of utils.; 1,226 met.; gen. 3,508 kW dual-fuel, eng.; 15,800 kWh; sales 14,206,283 kWh; rev. \$872,161. (1940)**

LA PORTE CITY Utils., 200 Main St., 50651, 319/342-2053, Ed Archer, util. supt.; 1,050 met.; gen. 2,860 kW oil (eng.); pur. 10,574,499 kWh; rev. \$633,905. (1935)*†*

LARCHWOOD Mun. Elec., 51241, 712/477-2366, William Bontje, mgr.; 310 met.; no gen.; rev. \$209,166.*

LAURENS Mun. Light & Power, 272 N. 3rd St., 50554, 712/845-4610, Michael D. Sangwin, supt.; 897 met.; gen. 4,626 kW, 3,126 kW coal (steam turbine), 1,500 kW oil, (eng.), 9,941,967 kWh; pur. 14,305,115 kWh; rev. \$1,025,094. (1949)*†

LAWLER Elec. Dept., Box 215, 52154, 319/238-3614, Karen Huber, city clerk; 313 met.; no gen.; pur. 2,928,000 kWh; rev. \$176,469.*

LEHIGH, City of, Municipal Building, 50557, 515/359-2311, Franklin Boring, supt.; 308 met.; no gen.; pur. 2,175,978; rev. \$153,826.*

LENOX Mun. Utils., Box 96, 50851, 515/333-2550, David D. Ferris, supt.; 725 met.; gen. 2,336 kW oil, (eng.), 800 kWh; pur. 11,903,549 kWh; rev. \$365,780. (1931)*†*

LIVERMORE Lighting Dept., Box 16, 50558, 515/379-1074, Steve Berte, supt.; 251 met.; no gen.*

LONG GROVE Mun. Utils., 52756, 319/285-7201, David W. Rea, dir. pub. works; 187 met.; no gen.; pur. 2,106,000 kWh; rev. \$149,083.*

MANILLA Mun. Service, 166 Sixth Ave., 51454, 712/654-3952, James H. Macumber, supt.; 528 met.; gen. 1,130 kW oil-fired eng., 10,500 kWh; pur. 7,552,600 kWh; rev. \$316,299. (1915)*†*

MANNING Mun. Light Plant, Box 386, 51455, 712/653-3214, Gerald Beck, util. mgr.; 833 met.; gen. 1,610 kW

oil (eng.), 4,460 kWh; pur. 21,946,389 kWh; rev. \$1,062,194. (1937)*†

MAPLETON Mun. Elec. Plant, 513 Main St., 51034, 712/882-1351, Tom LeFebvre, supt.; 830 met.; no gen.; pur. 11,172,127 kWh; rev. \$724,553.*

MAQUOKETA Mun. Elec. Util., 231 S. Main, 52060, 319/652-6891, Terry M. Campie, util. mgr.; 3,507 met.; gen. 16,635 kW, 14,270 kW dual-fuel (eng.), 2,465 kW oil (eng.), 479,100 kWh; pur. 50,832,000 kWh; rev. \$3,555,915. (1919)*†*

MARATHON, City of, Box 188, 50565, 712/289-2261, Robert Evans, elec. supt.; 236 met.; no gen.; pur. 2,270,400 kWh; rev. \$153,044. (1916)*

McGREGOR Mun. Utils., 126 1st St., Box 186, 52157, 319/873-2258, David Diehl, bd. chmn; 615 met.; gen. 2,018 kW eng., 48,070 kWh; pur. 7,038,000 kWh; rev. \$461,933. (1941)*

MILFORD Mun. Utils., 907 Eleventh St., Box 121, 51351, 712/338-4376, Norman Parsons, mgr.; 1,075 met.; gen. 2,000 kW coal-fired steam, 1,500 kW (eng.); pur. 19,634,259 kWh; rev. \$764,000. (1935)**

MONTEZUMA Mun. Light & Power, 406 E. Washington, 50171, 515/623-5102, Don H. Fahlenkamp, supt.; 837 met.; gen. 6,438 kW, 2,438 kW oil (eng.), 4,000 kW dual-fuel (eng.), 78,886 kWh; pur. 13,600,674 kWh; rev. \$845,540. (1939)**

MOUNT PLEASANT Mun. Utils., 509 N. Adams St., 52641, 319/385-2121, James Ritter, mgr.; 3,451 met.; gen. 10,500 kW coal (steam turbine), 1,000 kW diesel (eng.), 454,200 kWh; pur. 48,967,481 kWh; rev. \$3,040,899. (1897)*†

MUSCATINE Power & Water, 3205 Cedar St., 52761, 319/263-2631, Clyde L. Bowen, gen. mgr.; 10,299 met.; gen. 248,000 kW coal (steam turbine), 1,111,816,900 kWh; pur. 58,372,000 kWh; rev. \$68,025,977. (1922)*†

NEOLA Light & Water System, 105 3rd St., Box 67, 51559, 712/485-2307, George Soppe, mgr.; 450 met.; no gen.; pur. 4,110,656 kWh; rev. \$209,960. (1898)*

NEW HAMPTON Mun. Light Plant, 921 Canty Ave., 50659, 515/394-3002, Robert K. Kamrath, supt.; 2,363 met.; gen. 16,020 kW

eng., 188,400 kWh; pur. 44,449,858 kWh; rev. \$2,229,076. (1903)*⁵

NEW LONDON Mun. Utils., 112 W. Main St., 52645, 319/367-5623, R. Dean Davis, bd. chmn.; 1,145 met.; no gen.; pur. 13,070,400 kWh; rev. \$793,802. (1909)*⁷

OGDEN Mun. Utils., Box 70, 50212, 515/275-2437, Daniel L. Wilson, supt.; 1,057 met.; gen. 3,900 kW oil (eng.), 54,700 kWh; pur. 10,876,553 kWh; rev. \$654,829. (1930)*⁷

ONAWA, City of, 914 Diamond, 51040, 712/423-1181, Jeff Sander, supt. utils.; 1,874 met.; gen. 3,210 kW oil (eng.-standby); pur. 22,229,020 kWh; rev. \$1,236,224. (1896)*⁷

ORANGE CITY Mun., 125 Central Ave., S. E., 51041, 712/737-4885, Don E. Schreier, city admin.; 2,002 met.; gen. 3,625 kW oil (eng.-standby); pur. 46,034,100 kWh; rev. \$2,245,915. (1921)*⁷

ORIENT Mun. Utils., Box 116, 50858, 515/337-5711, Duane Wallace, mayor; 220 met.; no gen.; pur. 1,776,690 kWh; rev. \$134,000.*⁷

OSAGE Mun. Utils., 720 Chestnut St., Box 207, 50461, 515/732-3731, Weston D. Birdsall, gen. mgr.; 2,009 met.; gen. 11,500 kW dual-fuel (eng.), 1,210,000 kWh; pur. 29,628,031 kWh; rev. \$1,485,661. (1941)*⁷

OTTUMWA WATER WORKS, 310 S. Wapello St., Drawer A, Ottumwa, 52501, 515/684-4606, John P. Quirk, mgr.; gen. 3,000 kW hydro (excess power sold to Iowa Southern Utilities Co. under arrangement expiring in 1991).⁵

PANORA Mun. Util. Elec., 102 N. W. 2nd, City Hall, 50216, 515/755-2164, V. L. Schieffer Jr., elec. supt.; 635 met.; no gen.; pur. 6 million kWh; rev. \$439,845. (1921)⁵

PATON Elec. Util., 50217, 515/968-4255, Dennis Subbert, supt.; 186 met.; no gen.; pur. 2,431,212 kWh; rev. \$189,576. (1920)*⁷

PAULLINA Mun. Util., Box 239, 51046, 712/448-3428, Donald Dawson, city clerk/admin.; 674 met.; no gen.; pur. 8,991,324 kWh; rev. \$371,035. (1919)*⁷

PELLA Mun. Power & Light, 717 Main St., 50219, 515/628-4173, George Carson, supt. of oper.; gen. 38,000 kW coal (steam turbine), 95,989,000 kWh; pur. 17,597,000 kWh; rev. \$5,832,684. (1909)*⁷

POCAHONTAS Municipal Util., 14 Second Ave. N. W., 712/335-4841, Jack Gould, elec. supt.; 1,128 met.; no gen.; pur. 15,372,300 kWh; rev. \$948,898. (1912)*⁵

PRESTON Mun. Light & Power, Box 37, 52069, 319/689-3081, Gary Driscoll, plant supt.; 574 met.; gen. 4,257 kW eng.; pur. 9.6 million kWh; rev. \$583,808. (1939)*⁷

PRIMGHAR Mun. Light Plant, 155 1st St. S.W., Box 39, 51245, 712/757-2435, Robert L. Mulder, supt. of utils.; 581 met.; gen. 1,380 kW oil (eng.); pur. 7,107,888 kWh; rev. \$341,071. (1939)*⁷

READLYN, City of, 128 Main St., 50668, 319/279-3411, Earl Rommel, mayor; 332 met.; no gen.; pur. 4,056,800 kWh.*⁷

REMSEN Mun. Utils., 205 Fulton St., 51050, 712/786-2136, Louis A. Huewe, supt.; 786 met.; gen. 1,440 kW dual-fuel eng.; pur. 10,850,000 kWh; rev. \$565,534. (1933)*⁷

RENWICK Mun. Light & Power, Box 174, 50577, 515/824-3511, Galen Engstrom, supt.; 374 met.; gen. 483 kW oil-fired eng.; pur. 3,285,633 kWh; rev. \$181,863. (1928)⁵

RINGSTED, City of, Box 287, 50578, 712/866-0877, Cathy Wikert, city clerk. (On Aug. 18, 1987, Ringsted citizens voted 210-15 to establish a public power system in territory now served by Iowa Electric Light & Power Co.)

ROCKFORD Mun. Light Plant, 50468, 515/756-2215, Gary Schriever, mgr.; 543 met.; gen. 1,775 kW eng.; 44,100 kWh; pur. 4,356,000 kWh; rev. \$287,423. (1935)⁶

ROCK RAPIDS Utils., 310 S. Third Ave., 51246, 712/472-2511, William G. Tobin, mgr.; 1,338 met.; gen. 2,500 kW oil (eng.), 6,240 kWh; pur. 21,798,000 kWh; rev. \$892,413. (1896)*⁷

SABULA, Mun. Elec., 413 Broad St., 52070, 319/687-2420, C.B. Cotton, city mgr.; 454 met.; no gen.; pur. 3,025,000 kWh; rev. \$190,837. (1965)⁶

SANBORN Mun. Light Plant, 102 Main St., 51248, 712/729-3974, Allen Bonderman, gen. mgr.; 655 met.; gen. 1,444 kW (standby), 900 kW oil (eng.), 544 kW dual-fuel (eng.); pur. 13,516,572 kWh; rev. \$623,027. (1947)*⁷

SERGEANT BLUFF, City of, 401 4th St., Box 703, 51054, 712/943-4244, Maynard Kilpatrick, maint. supt.; 986 met.; no gen.*⁷

SHELBY Mun. Elec. Util., Box 186, 51570, 712/544-2404, Lawrence Brown, supt.; 342 met.; no gen.; pur. 4,591,998 kWh; rev. \$137,248. (1933)*⁷

SHELDON, City of, Box 276, 51201, 712/324-4651, Bill Rush, city mgr. (On Oct. 13, 1987, Sheldon citizens voted 1,194-694 to establish a public power system in territory now served by Iowa Public Service Co.)*⁷

SIBLEY Mun. Util., 1108 Third Ave., 51249, 712/754-3454, Mike Pence, admin.; 1,642 met.; no gen.; pur. 31,068,202 kWh; rev. \$1,491,874. (1915)*⁷

SIOUX CENTER Mun. Utils., 337 N. Main Ave., 51250, 712/722-0761, Harold Schiebout, util. supt.; 1,757 met.; gen. 1,465 kW dual-fuel (eng.-standby), 2,400 kWh; pur. 41,388,770 kWh; rev. \$1,788,864. (1949)*⁷

SPENCER Mun. Utils., Box 5046, 51301, 712/262-3027, Neal Drefke, gen. mgr.; 5,387 met.; gen. 31,090 kW, 23,800 kW oil (combust. turbine), 22,453,424 kWh; pur. 96,621,551 kWh; rev. \$4,410,859. (1901)*⁷

STANHOPE Mun. Elec. Util., Box 128, 50246, 515/826-3290, Ron L. McKenzie, city clerk; 248 met.; no gen.; sales 2,239,833 kWh; rev. \$163,154.*⁷

STANTON Elec. Dist. System, Box 280, 51573, 712/829-2613, Larry Johnson, supt.; 313 met.; no gen.; pur. 6,526,487 kWh; rev. \$196,884. (1937)⁵

STATE CENTER, City of, Mun. Utils., Box 668, 50247, 515/483-2590, Pat Stief, city supt.; 818 met.; gen. 5,672 kW, 550 kW oil (eng.), 5,122 kW dual-fuel (eng.), 124,400 kWh; pur. 10,633,600 kWh; rev. \$631,941. (1899)*⁷

STORY CITY Mun. Elec. Util., 504 Broad St., 50248, 515/733-4591, Gene R. Twedt, supt.; 1,482 met.; gen. 9,020 kW, 704 kW oil-fired, 8,316 kW dual-fuel, 176,900 kWh; pur. 20,413,000 kWh; rev. \$1,279,887. (1904)*⁷

STRATFORD Light & Power, Box 218, 50249, 515/838-2311, Geraldine Conklin, city clerk; 407 met.; no gen.; pur. 3,757,440 kWh; rev. \$193,840. (1920)⁵

STRAWBERRY POINT Mun. Light Plant, 111 Commercial, Box 279, 52076, 319/933-4482, Al Ohrt, city admin.; 700 met.; gen. 2,467 kW dual-fuel eng., 124,530 kWh; pur. 6,802,000 kWh; rev. \$465,431. (1928)⁶

STUART, Box 370, 50250, 515/523-2915, William Gilliam, supt.; 883 met.; gen. 2,945 dual-fuel (eng.), 158,000 kWh; pur. 10,076,771 kWh; rev. \$592,755. (1891)*⁷

SUMNER Mun. Power Plant, 105 Wapsie St., 50674, 319/578-5611, Robert Jergens, supt.; 1,090 met.; gen. 5,160 kW, 2,490 kW oil (eng.), 2,670 kW dual-fuel (eng.); pur. 12,528,979 kWh; rev. \$870,298. (1935)*⁷

TENNANT Elec. Dept., 51574, 711/544-2961, Gene Peters, mayor; no gen.; 39 met.; rev. \$22,833. (1986)⁶

TIPTON City of, 407 Lynn St., 52772, 319/886-6187, Robert E. Snavely, city coordinator; 1,637 met.; gen. 3,470 kW, 770 kW oil (eng.), 2,700 kW dual-fuel (eng.), 79,900 kWh; pur. 18,886,400 kWh; rev. \$1,419,526. (1916)*⁶

TRAER Mun. Utils., 649 Second St., 50675, 319/478-8760, Kent Holst, gen. mgr.; 1,033 met.; gen. 4,312 kW dual-fuel (eng.); 257,750 kWh; pur. 14,109,000 kWh; rev. \$946,601. (1917)*⁷

VILLISCA Mun. Power Plant, City Hall Bldg., 50864, 712/826-3192, Herbert A. Phillis, supt.; 855 met.; gen. 2,508 kW, 906 kW oil, 1,600 kW dual-fuel (eng.), 6,800 kWh; pur. 9,737,202 kWh; rev. \$262,120. (1936)*⁶

VINTON Mun. Elec. Util., 501 First Ave., 52349, 319/472-4707, Collin D. Engebretsen, supt. of util.; 2,376 met.; gen. 15,410 kW, 2,175 kW oil (eng.), 13,235 kW dual-fuel (eng.), 367,100 kWh; pur. 27,943,200 kWh; rev. \$1,789,725. (est. 1913)*⁷

WALL LAKE, City of, 51466, 712/664-2216, Orville Franck, mayor; 450 met.; no gen.; pur. 8,771,184 kWh; rev. \$321,697. (1903)*⁷

WAVERLY Mun. Elec. Util., 1500 W. Bremer Ave., 50677, 319/352-6251, Robert Morse, dir.; 3,699 met.; gen. 23,840 kW, 7,150 kW coal (steam turbine), 13,595 kW dual-fuel (eng.), 2,600 kW oil (eng.), 495 kW hydro; 27,915,910 kWh; pur. 51,901,395 kWh; rev. \$5,043,037. (1904)*⁷

WEBSTER CITY, City of, 400 Second St., Municipal Bldg., 50595, 515/832-5701, Robert Hayes, city mgr.; 4,206 met.; no gen.; pur. 87,780,738 kWh; rev. \$4,837,252. (1890)*⁷

WEST BEND Mun. Light and Power Co., Box 411, 50597, 515/887-3111, Mike Willetts; 649 met.; gen. 4,447 kW, dual-fuel, 300

IOWA (continued)

kW oil-fired eng.; 93,300 kWh. pur. 12,001,932 kWh; rev. \$875,836. (1915)⁵

WESTFIELD Elec. Dept., 51062, Box 5, 712/568-2631, Marietta Brown, mayor; 90 met.; no gen.; rev. \$48,000.⁵

WEST LIBERTY, City of, Elec. Dept., 101 W. 4th St., 52776, 319/627-2418, E. R. Stiff, city mgr.; 1,306 met.; gen. 5,500 kW dual-fuel, 856 kW oil-fired eng., 125,400 kWh; pur. 41,648,400 kWh; rev. \$2,477,631. (1897)⁷

WEST POINT Mun. Utility System, 313 Fifth St., 52656, 319/837-6313, Richard J. Krueger Jr., util. dir.; 634 met.; no gen.; pur. 9,306,602 kWh; rev. \$884,192.⁶

WHITTEMORE Mun. Utils., 310 - 4th St., Box 127, 50598, 515/884-2631, Mike Elbert, supt. of utils.; 319 met.; gen. 2,203 kW dual-fuel (eng.), 20,300 kWh; pur. 4,521,600 kWh; rev. \$264,225.⁷

WILTON Mun. Light & Power, 220 W. Third St., 52778, 319/732-2929, Rick J. Cayton, supt.; 1,244 met.; gen. 4,385 kW, 335 kW oil (eng.), 4,050 kW dual-fuel (eng.); 34,800 kWh; pur. 16,960,669 kWh; rev. \$1,078,801. (1891)*⁷

WINTERSET Mun. Utils., 321 N. First St., 50273, 515/462-2152, George C. Berry, supt.; 1,962 met.; gen. 8,480 kW, 7,730 kW dual-fuel eng., 750 kW oil-fired eng.; pur. 26,336,811 kWh; rev. \$1,596,875. (1889)*⁷

WOODBINE Mun. Light and Power, 517 Walker St., 51579, 712/647-2340, Rrry Weis, supt.; 742 met.; no gen.; pur. 11,547,320 kWh; rev. \$481,676. (1941)*⁷

WOOLSTOCK Elec. Dept., 50599, Box 57, 515/839-5531, Hazel Brock, city clerk; 120 met.; no gen.⁵

KANSAS

ALMA, City of, Box 444, 66401, 913/765-3922; Max Kraus, util. supt.; 479 met.; no gen.; pur. 5,121,600 kWh; rev. \$390,784. (1938)⁷

ALTAMONT, City of, Box 305, 67330, 316/784-5612, Denzil Davidson, util. supt.; 510 met.; no gen.; pur. 5,994,249 kWh; rev. \$449,109. (1934)⁷

ANTHONY, City of, Box 504, 67003, 316/842-5960, Jack C. Scott, supt.; 1,952 met.; gen. 12,000 kW, 3,000 kW gas, 9,000 kW dual-fuel (eng.);

5,571,000 kWh; pur. 29,811,851 kWh; rev. \$1,541,000. (1909)*⁷

ARCADIA City of, Box 126, 66711, 316/638-4310, Emory W. Briggs, mayor; 215 met.; no gen.; pur. 1,452,000 kWh; rev. \$103,000.⁷

ARMA, City of, 701 E. Washington, Box 829, 66712, 316/347-4125, James C. Jones, util. supt.; 720 met.; no gen.; pur. 8,028,000 kWh; rev. \$513,931. (1909)⁷⁵

ASHLAND, City of, Box 547, 67831, 316/635-2531, Don German, supt.; 706 met.; gen. 4,975,000 kW dual-fuel (eng.), 8,757,600 kWh; rev. \$550,671. (1909)⁷

ATTICA, City of, 101 N. Main, 67009, 316/254-7216, Donald Bateman, gen. supt.; 451 met.; no gen.; pur. 5,617,565 kWh; rev. \$399,248.⁷

AUGUSTA, Mun. Elec. Dept., Box 489, 67010, 316/775-2391, Homer H. Bair, city mgr.; 3,354 met.; gen. 1,106 kW oil (eng.), 22,636 kW dual-fuel (eng.), 2,625,000 kWh; pur. 46,575,000 kWh; rev. \$2,738,006. (1911)⁷

AXTELL Electric, 401 Maple, Box A, 66403, 913/736-2834 or 2351, Roger Koch, supt.; 254 met.; no gen.; pur. 2,013,600 kWh; rev. \$136,314.⁷

BALDWIN CITY Mun. Light & Water Dept., 605 High, 66006, 913/594-6427, John Hill, supt.; 1,095 met.; gen. 90,700 kWh; pur. 14,264,560 kWh.⁷

BELLEVILLE, City of, Box 280, 66935, 913/527-2288, Richard E. Cotton, city mgr.; 1,538 met.; gen. 13,125 kW dual-fuel (eng.), 20,151,600 kWh; rev. \$1,245,433. (1923)*⁷

BELOIT Mun. Power Plant, 215 S. Chestnut, 67420, 913/738-5121, Jack Saltkill, gen. supt.; 2,145 met.; gen. 19,350 kW eng., 650 kW organic Rankine cycle, 2,831,900 kWh; pur. 30,017,666 kWh; rev. \$1,818,613. (1908)*⁷

BLUE MOUND Mun. Dist. System, 66010, Lloyd Spillman, supt. light plant; 173 met.; no gen.; pur. 1,479,600 kWh; rev. \$74,904.⁷

BRONSON Mun. Light & Power, 411 Clay St., 66716, Charles Martin, S.W. L.P.; 316/939-4578. (1926)⁷

BURLINGAME, City of, 101 E. Santa Fe, 66413, 913/654-3922, Norman Bloomquist, gen. supt.; 645 met.; gen. 4,630 kW dual-fuel (eng.), 7,444,950 kWh; rev. \$465,934. (1902)⁷

BURLINGTON, City of, Mun. Light & Power Dept., 301 Neosho St., 66839, 316/364-5575, Alfred Mann, elec.

supt., 1,418 met.; gen. 8,420 kW gas-fired (eng.), 1,514,560 kWh; pur. 19,377,000 kWh; rev. \$1,362,426. (1935)⁷

CAWKER CITY, Mun. Light and Water, 804 Locust St., Box 2, 67430, 913/781-4713, Delbert Wallace, elec. supt.; 435 met.; no gen.; pur. 3,740,800 kWh; rev. \$303,762. (1913)⁷

CENTRALIA, City of, Box 247, 66415, 913/857-3764, G. L. Luebbe, supt.; 284 met.; no gen.; pur. 2,722,400 kWh; rev. \$233,942.⁷

CHANUTE, City of, Elec. Dept., 1002 E. 14th St., Box 907, 66720, 316/431-9306, Robert Walker, city mgr.; 5,999 met.; gen. 43,115 kW, 16,500 kW gas (steam turbine), 1,750 kW oil (eng.), 24,865 kW dual-fuel (eng.), 6,929,020 kWh; pur. 76,384,120 kWh; rev. \$5,277,781. (1903)*⁷

CHAPMAN Electric, 402 Marshall, Box 321, 67431, 913/922-6582, James Morrison, lt. and water supt.; 641 met.; no gen.; pur. 5,988,800 kWh; rev. \$483,748. (1911)⁷

CHETOPA, City of, Box 203, 67336, 316/236-7511, Mary Addis, city clk.; 758 met.; no gen.⁷

CIMARRON, City of, Box 467, 67835, 316/855-2322, Vernon Hanna, city supt.; 855 met.; no gen.; pur. 12,868,800 kWh; rev. \$951,709.⁷

CLAY CENTER, City of, Pub. Utils., 427 Court St., Box 117, 67432, 913/632-2137, D. D. Dierking, supt. of utils.; 2,798 met.; gen. 9,500 gas (steam turbine), 7,950 dual-fuel (eng.), 16,548,200 kWh; pur. 22,248,000 kWh; rev. \$2,470,000. (1907)*⁷

COATS, City of, Box 115, 67028, 316/893-2324, Jane Maphet, city clk.; 100 met.; no gen. (1920)⁶

COFFEYVILLE Mun. Light & Power, 605 Santa Fe, Box 1629, 67337-0949, 316/251-7000, ext. 248, Glen Welden, city mgr.; 8,404 met.; gen. 80,050 kW gas (steam turbine), 32,161,900 kWh; pur. 113,297,150 kWh; rev. \$8,543,065. (1901)*⁷

COLBY, Dept. of Public Power, 585 N. Franklin, 67701, 913/462-3973, James D. Whitney, dir., public power; 2,701 met.; gen. 18,170 kW dual-fuel (eng.), 46,000 kWh; pur. 43,155,214 kWh; rev. \$2,263,360. (1910)*⁷

DeSOTO, City of, 108 W. Second St., Box C, 66018, 913/585-1182, Eldon Brown dir. pub. wks.; 1,009 met.; no gen.; pur. 9,564,000 kWh; rev. \$669,635.⁷

DIGHTON, City of, Box 848, 67839, 316/397-5541, Leland Moore; 800 met.; no gen.; pur. 8,782,647 kWh; rev. \$923,741.⁷

ELLINWOOD, City of, 201 W. 1st St., 67526, John Rapp, supt.; 1,318 met.; gen. 8,479 kW eng.; 2,884,500 kWh; pur. 12,140,800 kWh; rev. \$1,299,752. (1948)⁵

ELSMORE, City of, City Hall, 66732, 316/754-3291, Velma Huffman, city clk.; 56 met.; pur. 422,200 kWh; rev. \$22,428.⁷

ELWOOD, City of, Box 357, 66024, 913/365-6871, Benny Townsend, utils. foreman; 500 met.; no gen.; pur. 5,430,000 kWh; rev. \$363,356.⁵

ENTERPRISE, City of, Box 245, 67441, 913/934-2323, G. W. (Jude) Saip Jr., city supt.; 360 met.; no gen.; rev. \$275,857.⁷

ERIE Mun. Light & Power, 224 S. Main, Box 196, 66733, 316/244-3488, Donald L. Naff, city supt.; 700 met.; gen. 3,050 kW dual-fuel (eng.), (standby only); pur. 9,345,437 kWh; rev. \$549,882. (1915)*⁷

EUDORA, City of, Mun. Elec. System, Seventh and Main, Box 650, 66025, 913/542-2095, Richard McNett, supt.; 1,131 met.; no gen.; sales 10,659,833 kWh; rev. \$891,891.⁷

FREDONIA Mun. Power Plant, 314 N. Seventh St., 66736, 316/378-2231, D. W. Schoolcraft, comm.; 1,661 met.; gen. 7,200 kW dual-fuel eng. (standby); pur. 29,304,464 kWh; rev. \$1,979,871. (1901)⁷⁵

GALVA, City of, 208 S. Main, Box 223, 67443, 316/654-3561, Vernon R. Koehn, city supt.; 329 met.; no gen.; pur. 3,071,000 kWh; rev. \$224,027.⁷

GARDEN CITY Mun., 301 N. 9th, Box 499, 67846, 316/276-8263, Bob Halloran, city mgr.; 9,040 met.; no gen.; pur. 137,077,400 kWh; rev. \$12,200,493.⁷

GARDNER Mun. Elec. System, 112 S. Elma St., 66030, 913/884-7535, Jim Cole, supt.; 1,363 met.; no gen.; pur. 21,031,710 kWh; rev. \$1,439,174.⁷

GARNETT, City of, Box H, 66032, 913/448-5496, R. G. Doran, city mgr.; 1,856 met.; gen. 9,292 kW dual-fuel (eng.), 5,611,120 kWh; pur. 17,406,052 kWh; rev. \$1,387,508. (1918)*⁷

GIRARD Mun. Light & Water, 100 S. Ozark, 66743, 316/724-8918, Dwight Mays, city admin.; 1,617 met.; no gen.; pur. 23,730,000 kWh; rev. \$1,851,222.⁷

GLASCO, City of, Box 356, 67445, 913/568-2705, Carl Adkins, mayor; 420 met.; no gen.; pur. 3,459,200 kWh; rev. \$308,872.⁸

GLEN ELDER, City of, Box 55, 101 S. Market St., 67446, 913/545-3322, Geneva Winkel, city clk.; 352 met.; no gen.; pur. 3,443,600 kWh; rev. \$284,803.⁷

GOODLAND, City of, Mun. Power Plant, 204 W. 11th St., Box 57, 67735, 913/899-5200, Larry Heinrich, plant supt.; 2,903 met.; gen. 21,000 kW, 700 kW oil-fired eng., 20,300 dual-fuel eng.; pur. 27,175,000 kWh; rev. \$2,952,668. (1937)*⁷

GREENSBURG Light & Power, 400 N. Main, 67054, 316/723-2691, Melvin Simmons, supt.; 1,048 met.; gen. 8,427 kW dual-fuel eng., 13,361,500 kWh; pur. none; rev. \$879,469. (1911)⁷

HAVEN, City of, 118 S. Kansas Ave., 67543, 316/465-3618, Don R. Huston, supt.; 576 met.; no gen.; pur. 8,457,000 kWh; rev. \$651,977. (1908)⁷

HERINGTON, City of, 715 S. Broadway, 67449, 913/258-2271, W. A. Wetmore, city mgr.; 1,525 met.; gen. 9,700 kW dual-fuel (eng.), 1,510,100 kWh; pur. 18,019,200 kWh; rev. \$1,204,451. (1888)*⁷

HERNDON, City of, Box 98, 67739, 913/322-5341, Roger Marintzer, mayor; 153 met.; no gen.; pur. 1,096,000 kWh; rev. \$126,395. (1937)⁷

HILL CITY, City of, 205 N. Pomeroy, 67642, 913/674-3437, David Super, city supt.; 1,160 met.; gen. 7,265 kW dual-fuel (eng.), 220,000 kWh; pur. 13,651,100 kWh; rev. \$1,133,837. (1900s)⁷

HILLSBORO, City of, 116 E. Grand, 67063, 316/947-3163, Johnnie E. Liles, util. supt.; 1,436 met.; no gen.; pur. 15,343,200 kWh; rev. \$1,264,492. (1930)⁷⁵

HOISINGTON Mun. Elec. Util., Box 418, 67544, 316/653-4125, Carl Myers, city mgr.; 1,750 met.; gen. 15,900 kW dual-fuel (eng.), 5,296,870 kWh; pur. 14,036,431 kWh; rev. \$1,314,917. (1940)⁷

HOLTEN Mun. Power Plant, 1000 New Jersey, 66436, 913/364-3719, Lyle L. Lee, supt.; 1,909 met.; gen. 14,600 kW oil (steam turbine), 11,700 kW gas (steam turbine); 2,464,000 kWh; pur. 25,195,200 kWh; rev. \$1,698,272. (1931)⁷

HOLYROOD Light & Water Dept., 110 S. Main, 67450, 913/252-3652, Juan Rodriguez, util. supt.; 275 met.;

no gen.; pur. 2,914,800 kWh; rev. \$219,000. (1918)⁷⁵

HORTON, City of, 205 E. 8th St., 66439, 913/486-3911, Cleo N. Coffman, supt.; 947 met.; (1912)⁸

HUGOTON City Water & Light Dept., 114 E. Fifth St., Box 788, 67951, 316/544-8531, Everett Rowden, utils. supt.; 1,733 met.; gen. 17,770 kW dual-fuel eng., 23,644,016 kWh; sales 19,541,965; rev. \$1,668,389. (1919)*⁷⁵

IOLA, City of, 2 West Jackson St., 66749, 316/365-2771, Les Olm, city supt.; 4,034 met.; gen. 27,500 kW, 10,000 kW gas (steam turbine), 12,000 kW oil (combust. turbine), 10,627,700 kWh; pur. 66,606,826 kWh; rev. \$2,871,739. (1900)*⁷

ISABEL City Elec. Dept., Box 97, City Hall, 67065, 316/739-4347, Carolyn Armstrong, city clerk; 85 met.; no gen.; pur. 800,000 kWh; rev. \$69,000.⁵

IUKA, City of, Box 105, 67066, 316/546-2215, Coleen Chance, mayor; 126 met.; no gen.; pur. 1,758,800 kWh; rev. \$128,416.⁸

JETMORE, City of, Box 8, 67854, 316/357-8344, Dean Hertel, utils. supt.; 580 met.; gen. 5,000 kW dual-fuel eng. (standby); 97,300 kWh; pur. 6,127,700 kWh; rev. \$450,776.⁵

JOHNSON Mun. Power Plant, Main St., Box 500, 67855, 316/492-2322, Rex McGowne, supt.; 696 met.; gen. 7,048 kW dual-fuel eng., 4,706,600 kWh; pur. 6,528,000 kWh; rev. \$749,206. (1938)⁷

KANSAS CITY Bd. of Pub. Utils., 700 Minnesota Ave., 66101, 913/281-8181, Terry Drake, gen. mgr.; 77,603 met.; gen. 723,000 kW, 616,000 kW coal (steam turbine), 107,000 kW (combust. turbine), 2,209,145,000 kWh; pur. 312,609,000 kWh; rev. \$110,399,695. (1929)*⁷

KINGMAN Elec. Dept., Box 168, 67068, 316/532-3111, Ben M. Payton, supt.; 1,907 met.; gen. 15,760 kW dual-fuel, 35,556,800 kWh; pur. none; rev. \$2,199,498. (1913)*⁷

KIOWA, City of, Utils., 618 Main, Box 206, 67070, 316/825-4128, Carol A. Bloodworth, city admin.; 831 met.; no gen.; pur. 9,880,200 kWh; rev. \$839,069. (1976)⁷

LA CROSSE, City of, 1119 Main, 67548, 913/322-2511, Gerald Ben-nett, city mgr.; 940 met.; no gen.; pur. 10,067,510 kWh; rev. \$794,874. (1906)⁷

LA HARPE, City of, Box 121, 66751, 316/496-2241, George Poffen-barger, supt., 322 met.; no gen.; pur. 2,160,600 kWh.⁷

LAKIN, City of, Box 148, 67860, 316/355-6252, John Speer, city admin.; 955 met.; no gen.; pur. 10,553,400 kWh; rev. \$1,218,869. (1915)⁷

LARNED, Mun. Power Plant, 3rd Main St., 67550, 316/285-3544, Ron Arnold, city mgr.; 2,644 met.; gen. 12,800 kW (steam turbine), 1,300 kW (combust. turbine), 6,450 kW (eng.), 10,770,475 kWh; pur. 27,745,200 kWh; rev. \$2,236,214. (1916)*⁷

LINCOLN, City of Lincoln Center, Box 126, 67455, 913/524-4280, Dan Smith, supt.; 960 met.; gen. 10,400 kW dual-fuel (eng.), 11,034,800 kWh; rev. \$954,369. (1906)⁷

LINDSBORG, City of, Utility Dept., Box 70, 67456, 913/227-3355, Manuel Esquivel, city admin.; 1,350 met.; no gen. pur. 19,507,200 kWh; rev. \$1,405,000.⁵

LUCAS City of, Box 308, 67648, 913/525-6425, Gary Ward, supt.; 311 met.; no gen.; pur. 3,486,000 kWh; rev. \$299,447.⁷

LURAY, City of, 67649, 913/698-2309, Kurt Walker, supt.; 181 met.; no gen.; pur. 1,798,600 kWh; rev. \$149,107. (1915)⁷

MAHASKA City Elec. Dept., 66955, 913/245-3214, Roger Lambert, supt.; 80 met.⁷

MANKATO, City of, Elec. Util., 202 E. Jefferson, Box 2, 66956, 913/378-3141, D. L. Hamilton, city admin.; 712 met.; no gen.; pur. 7,135,800 kWh; rev. \$525,000. (1950)⁷

MARION, City of, 203 N. Third, 66861, 316/382-3703, Junior Bredemeier, city supt.; 1,176 met.; no gen.; pur. 11,296,800 kWh; rev. \$1,048,502.⁵

MCPHERSON Bd. of Pub. Utils., 400 E. Kansas, Box 1008, 67460, 316/241-0661, Kenneth Boldt, gen. mgr.; 7,074 met.; gen. 199,100 kW, 1,000 kW oil (steam turbine), 42,300 kW dual-fuel (steam turbine), 104,900 kW dual-fuel (combust. turbine), 50,900 kW oil (combust. turbine), 4,929,000 kWh; pur. 403,795,000 kWh; rev. \$16,894,405. (1909)*⁷

MEADE, City of, Municipal, 623 E. Carthage, 67864, 316/873-2091, Carol Webber, city supt.; 925 met.; gen. 400 kW oil (eng.), 8,200 kW

dual-fuel (eng.), 12,355,200 kWh; rev. \$812,952. (1910)*⁷

MINNEAPOLIS Light Plant, 218 N. Rock, 67467, 913/392-2176, Emery C. Graves, city admin.; 1,076 met.; gen. 7,696 kW dual-fuel (eng.), 464 kW (eng.), 1,580,000 kWh; pur. 12,381,700 kWh; rev. \$794,034. (1921)⁷⁶

MONTEZUMA, City of, Box 37, 67867, 316/846-2264, Dwight Watson, city supt.; 335 met.; no gen.; pur. 6,373,600 kWh; rev. \$445,331. (1921)⁷

MORAN, City of, Box 396, 66755, 316/237-4301, Bob Rhodes, supt.; 288 met.; no gen.; pur. 3,926,400 kWh; rev. \$188,235. (1900)⁷

MORRILL, City of, Box 146, 66515, 913/459-2231, Paul Hayes, util. supt., 161 met.; no gen.; pur. 1,072,500 kWh; rev. \$87,746. (1927)⁷

MOUNDRIDGE, City of, 216 S. Chris-tian, 67107, 316/345-2661, Ronald L. Huxman, city admin., 738 met.; no gen.; pur. 13,089,000 kWh; rev. \$902,047. (1909)⁷

MOUNT HOPE, City of, Box 56, 67108, 316/667-2211, Jerry Brown, supt.; 335 met.; no gen.; pur. 4,144,068 kWh; rev. \$322,000.⁷

MULBERRY Mun. Light Plant, Box 338, 66756, 316/764-3815, Kurt Ziegler, supt.; 350 met.; no gen.; 1.3 million kWh; rev. \$100,000. (1915)⁵

MULVANE, City of, 211 N. 2nd St., 67110, 316/777-1143, ext. 33, Gary Rambo, supt.; 1,728 met.; gen. 6,972 kW, 6,272 kW dual-fuel eng., 700 kW hydro, 8,000 kWh; pur. 23,585,000 kWh; rev. \$1,719,461. (1902)*⁷

NEODESHA Mun. Power Plant, West Main St., 66757, 316/325-2925, Don Schultz, dir. pub. works; 1,827 met.; gen. 8,150 kW dual-fuel eng., 709,200 kWh; pur. 31,228,974 kWh; rev. \$2,349,847. (1912)⁷

NORTON Mun. Light Plant, 301 E. Washington, 67654, 913/877-3355, Allen Loyd, city admin.; 1,847 met.; gen. 8,874,000 kW eng.; pur. 13,864,000 kWh; rev. \$1,565,631. (1912)⁷

OAKLEY, City of, 400 Price St., 67748, 913/672-4558, Frank D. Salisbury, city supt.; 1,256 met.; gen. 7,805 kW dual-fuel (eng.), 415 kW oil (eng.), 2,998,000 kWh; pur. 14,385,000 kWh; rev. \$1,149,757. (1910)*⁷

OBERLIN, City of, 107 W. Commer-cial, 67749, 913/475-2217, Phyll Cramer, city supt.; 1,317 met.; pur.

KANSAS (continued)

15,205,860 kWh; rev. \$1,121,540. (early 1900s.)⁷

OSAGE CITY Mun. Light Plant, Fifth and Main Sts., 66523, 913/528-3851; Nina Gragg, city clk.; 1,475 met.; gen. 10,000 kW eng.; 1,719,300 kWh; pur. 17,812,800 kWh; rev. \$1,216,614.⁷

OSAWATOMIE, City of, Water & Elec. Plant, Box 37, 66064, 913/755-2148, Darrell Throener, dir. of utils.; 1,849 met.; gen. 6,585 kW (eng.); 61,100 kWh; pur. 23,082,880 kWh; 1,916,130; rev. \$1,347,335.*⁷

OSBORNE Mun. Light Plant, 133 W. Main St., 67473, 913/346-5611, Dick Schurr, city supt.; 1,094 met.; gen. 6,840 kW dual-fuel, 322,800 kWh; pur. 11,379,000 kWh; rev. \$819,048.⁷

OTTAWA Power Plant, City Hall, Fourth and Walnut, 66067, 913/242-2190, Jack E. Davis, dir. utils.; 5,179 met.; gen. 34,760 kW, 4,000 kW gas (steam turbine), 11,500 kW gas (comb. cycle), 19,250 kW dual-fuel (eng.); 2,477,028 kWh; pur. 77,643,630 kWh; rev. \$5,434,963. (1906)*⁷

OXFORD Mun. Elec. Dept., Box 337, 67119, 316/455-2223, Robert Spoon, supt.; 581 met.; no gen.; pur. 6,907,278 kWh; rev. \$631,246.⁷

POMONA Electric, Box 67, 66076, 913/566-3522, Carl E. Waltman, elec. supt.; 510 met.; no gen.; pur. 4,713,800 kWh; rev. \$319,111. (1914)⁸

PRATT, City of, Elec. Dept., 321 W. 10th St., 67124, 316/672-2022, Arlyn Bradford, supt.; 3,975 met.; gen. 23,500 kW, 22,000 kW gas (steam turbine), 1,500 kW oil-fired eng.; 7,491,000 kWh; pur. 57,877,360 kWh; rev. \$4,183,384. (1910)⁸

PRESCOTT City Elec. Dept., 66767, 913/471-4521, Leonard Fyock, city clerk; 153 met. (1921).⁷

RADIUM, City of, 67571, 316/982-4695, John Paden, city clerk; 28 met.; no gen.; pur. 500,000 kWh; rev. \$30,000.⁸

ROBINSON, City of, Box 36, 66532, 913/544-6850, Loren Davenport, mayor; 161 met.; no gen.; pur. 1,338,600 kWh; rev. \$93,069.⁷

RUSSELL, City of, Box 112, 67665, 913/483-6311, Earl Homewood, elec. util. dir.; 3,338 met.; gen. 23,393 kW, 5,000 kW oil (eng.), 18,393 kW dual-fuel (eng.), 40,330,700 kWh; pur. 24,152,000 kWh; rev. \$3,231,323. (1910)⁷

SABETHA Mun. Light Dept., Box 187, 66534, 913/284-2158, Royal Kinnel, admin.; 1,479 met.; gen. 12,454 kW, 1,526,770 kWh; pur. 29,030,400 kWh; rev. \$1,613,302.⁷

ST. FRANCIS, Mun. Power Plant, Box 517, 67756, 913/332-3031, Gary L. Pittman, city supt.; 1,008 met.; gen. 5,966 kW dual-fuel, (eng.); 204,425 kWh; sales 7,907,906 kWh; rev. \$782,159. (1914)⁷

ST. JOHN, City of, Box 367, 67576, 316/549-3800, Kenny Thomas, plant foreman; 1,103 met.; gen. 4,850 kW dual-fuel (eng.); 720,800 kWh; pur. 8,381,000 kWh; rev. \$773,133. (1910)⁷

ST. MARY'S, City of, 412 W. Bertrand, 66536, 913/437-2311, Donald Burrows, elec. supt.; 865 met.; no gen.; pur. 11,928,000 kWh; rev. \$820,676. (1908)⁷

SAVONBURG Electric, 66772, 316/754-3727, Earlene Johnson, utils. clerk; 68 met.; no gen.; pur. 394,390 kWh; rev. \$28,871. (1902)⁷

SCRANTON, City of, Box 218, 66537, 913/793-2414, Ernest L. Moslander, admin. asst.; 294 met.; no gen.; pur. 3,051,600 kWh; rev. \$222,277. (1919)⁷

SENECA, City of, Box 40, 66538, 913/336-2747, Richard Haugsness, supt.; 1,185 met.; no gen.; pur. 14,690,400 kWh; rev. \$1,152,306. (1903)⁷

SEVERANCE, City of, 66081, 913/359-6574, Jean Crawley, city clerk; 65 met.; no gen.; pur. 352,800 kWh; rev. \$19,766.⁷

SEWARD, City of, Box 256, 67577, Bill Reddick, mayor; 50 met.; no gen.; pur. 429,120 kWh; rev. \$38,391.⁷

SHARON SPRINGS, City of, Box 490, 67758, 913/852-4232, Norman L. (Pete) Sharp, city supt.; 634 met.; gen. 3,117 kW dual-fuel (eng.), 118,800 kWh; pur. 5,840,082 kWh; rev. \$585,146. (1918)*⁷

STAFFORD, Mun. Power Plant, 519 S. Boston, Box 280, 67578, 316/234-5561, Bill Kirkpatrick, city supt.; 856 met.; gen. 5,051 kW dual-fuel (eng.); 770,800 kWh; pur. 7,856,000 kWh; rev. \$636,532.⁷

STERLING, City of, 114 North Broadway, 67579, 316/278-3411, John Deardoff, city mgr.; 958 met.; gen. 5,840 kW dual-fuel (eng.), 1,715,140 kWh; pur. 12,502,400 kWh; rev. \$783,280. (1916)⁷

STOCKTON Mun. Elec. Plant, Box 512, 67669, 913/425-6703, Rich Nienstedt, city mgr.; 1,029 met.; gen. 6,294 kW dual-fuel; 869,000 kWh;

pur. 16,971,100 kWh; rev. \$1,316,435. (1908)⁷

SUMMERFIELD, City of, 66541, Don Stueve, mayor; 913/244-6464, 152 met. no gen.; rev. \$77,326.⁷

TORONTO Mun. Light Plant, Box 235, 66777, 316/637-2605, Clyde Boone, supt.; 252 met.; no gen.; pur. 1,762,800 kWh; rev. \$134,432.⁷

TROY, City of, 137 W. Walnut, 66087, 913/985-2265, Leonard Clary, supt.; 655 met.; no gen.; pur. 5,252,400 kWh; rev. \$408,000. (1911)⁸

UDALL Water & Light Dept., 110 S. Main, 67146, 316/782-3512, Corbett Wilson, supt.; 309 met.; no gen.; pur. 3,853,800 kWh; rev. \$308,651. (1939)⁷

VERMILLION, City of, 66544, 913/382-6224, James W. McMullen, elec. supt.; 103 met.; no gen.⁷

WAMEGO, City of, 430 Lincoln, Box 86, 66547, 913/456-9119, Mark F. Arbutnot, city mgr.; 1,737 met.; gen. 8,311 kW dual-fuel (eng.), 1,989,018 kWh; pur. 22,507,200 kWh; rev. \$1,207,308. (1908)*⁷

WASHINGTON Mun. Power Plant, Park Road, Box 296, 66968, 913/325-2231, Ivan W. Hinkle, power plant supt.; 823 met.; gen. 6,501 kW; 203,000 kWh; pur. 9,509,400 kWh; rev. \$677,866. (1938)⁷

WATERVILLE Mun. Light Plant, 204 E. Front, 66548, 913/785-2367, A. C. Tryon, util. supt.; 440 met.; no gen.; rev. \$284,730.⁷

WATHENA, City of, 206 St. Joseph St., 66090, 913/989-4711, Tim Smith, frmn.; 625 met.; no gen.; pur. 6,091,200 kWh; rev. \$508,733.⁷

WEBBER, City of, 66970, 913/753-4401, Dallas Diamond, mayor; 45 met.; no gen.; pur. 327,504 kWh; rev. \$21,788. (1937).⁵

WELLINGTON, Municipal, 317 S. Washington, 67152, 316/326-3871, James D. Marsh, city engr.; 4,267 met.; gen. 21,000 kW, 20,000 kW gas (steam turbine), 1,000 kW dual-fuel (eng.); 11,900,000 kWh; pur. 66,675,500 kWh; rev. \$5,427,855. (1902)*⁷

WINFIELD, City of, Box 646, 67156, 316/221-4891, Richard L. Craft, dir. of utils.; 7,530 met.; gen. 55,750 kW, 44,500 kW gas (steam turbine), 11,250 gas (comb. turbine), 29,170,500 kWh; pur. 138,189,396 kWh; rev. \$9,202,611. (1904)*⁷

KENTUCKY

(Systems designated "TVA" are distributors of Tennessee Valley Authority power and purchase all of their power from TVA.)

BARBOURVILLE Water & Elec. Co., Box 651, 40906, 606/546-3187, Randell Young, mgr.; 3,309 met.; no gen.; pur. 55,476,000 kWh; rev. \$2,751,361. (1938)⁵

BARDSTOWN, City of, 220 N. 5th St., 40004, 502/348-5947, Larry Hamilton, city engr.; 2,652 met.; no gen.; pur. 73,610,800 kWh.*⁸

BARDWELL City Utils., Box 277, 42023, 502/628-3833, Donald M. Terry, mgr.; 557 met.; no gen.; sales 6,572,980 kWh; rev. \$386,000. (1941)⁷

BENHAM Power Board, Box E, 40807, 606/848-5506, Jimmy Dale Hensley, chmn., power bd.; 337 met.⁵

BENTON Elec. System, Box 124, 42025, 502/527-3651 Jim Owens, gen. mgr.; 2,085 met.; no gen.; pur. 50,444,653 kWh; rev. \$2,751,076. (TVA) (1945)*⁷

BEREA College Utils., CPO 2337, 40404, 606/986-4611, Mike Bethurem, actg. utils. dir.; 3,569 met.; no gen.; pur. 83,752,000 kWh; rev. \$3,842,293. (est. 1891)*⁷

BOWLING GREEN Mun. Utils., Box 10300, 42101, 502/782-1200, Eddie Beck, gen. mgr.; 18,416 met.; no gen.; pur. 550,014,493 kWh; rev. \$26,711,558. (TVA) (1942)*⁷

CORBIN City Util. Comm., 901 S. Main St., 40701, 606/528-4026, George P. Rains, gen. mgr.; 3,758 met.; no gen.; pur. 59.8 million kWh; rev. \$3,081,960.⁵

FALMOUTH City Utils., 212 Main St., 41040, 606/654-6937, Pete Lawson, supt.; 1,200 met.; no gen.; pur. 14,611,200 kWh; rev. \$814,569.⁵

FRANKFORT Elec. and Water Plant Bd., 315 W. Second St., Box 308, 40601, 502/223-3401, Warner J. Caines, gen. mgr.; 16,305 met.; no gen.; pur. 462,224,100 kWh; rev. \$19,806,207. (1943)*⁷

FRANKLIN, City of, Elec. Plant Bd., Box 349, 42134, 502/586-4441, Bill C. Austin, supt.; 3,924 met.; no gen.; pur. 172,071,997 kWh; rev. \$8,165,918. (TVA) (1943)*⁷

FULTON Elec. System, 501 Walnut St., 42041, 502/472-1362, Billy Moss, supt.; 1,901 met.; no gen.;

pur. 54,959,000 kWh.; rev. \$2,872,922. (1962)*†

GLASGOW Elec. Plant Bd., 100 Malory Drive, 42141, 502/651-8341, William J. Ray, supt.; 5,765 met.; no gen.; pur. 238,983,030 kWh; rev. \$11,011,039. (TVA) (1962)*†

HENDERSON Mun. Power & Light, Box 8, 42420, 502/826-2726, Bill L. Perry, gen. mgr.; 12,423 met.; gen. 393,000 kW, 391,000 kW coal (steam turbine), 2,000 kW dual-fuel (eng.); pur. 25,020,000 kWh; rev. \$21,133,166. (1897)*†

HICKMAN Elec. Sys., Box 228, 42050, 502/236-3146, James Eakes, mgr.; 1,303 met.; no gen.; pur. 20,118,500 kWh; rev. \$1,214,651. (TVA) (1965)†

HOPKINSVILLE Elec. Plant Bd., Box 544, 42240-0544, 502/887-4212, Austin B. Carroll, supt.; 12,643 met.; no gen.; pur. 342,948,601 kWh; rev. \$15,987,156. (TVA) (1942)*†

MADISONVILLE Mun. Utils., 609 McCoy Ave., Box 704, 42431, 502/821-0903, J. T. Tarpley, supt.; 7,983 met.; no gen.; pur. 198,477,835 kWh; rev. \$11,476,896. (TVA) (1922)†

MAYFIELD Elec. & Water, 301 E. Broadway, 42066, 502/247-4661, James R. Gooch, gen. supt.; 5,665 met.; no gen.; pur. 122,745,571 kWh; rev. \$6,215,152. (TVA) (1942)*†

MONTICELLO, City of, Elec. Plant Bd., Box 657, 42633, 606/348-8102, James H. McCune, supt.; 2,917 met.; no gen.; pur. 71,559,746 kWh; rev. \$3,602,465. (TVA) (1960)*†

MURRAY Elec. System, Box 1095, 401 Olive St., 42071, 502/753-5312, Ron Underwood, supt.; 5,864 met.; pur. 210,322,458 kWh; rev. \$11,060,166. (TVA) (1942)*†

NICHOLASVILLE, City of, Elec. Dept., 517 N. Main St., Box 158, 40356, 606/885-9473, David House, mgr.; 4,000 met.; no gen.³

OLIVE HILL, City of, Mun. Power, Box 460, 41164, 606/286-2192, Alice Fielding, util. clerk; 1,284 met.; no gen.; rev. \$706,000.³

OWENSBORO Mun. Utils., 115 E. 4th St., 42301, 502/926-3200, John Pace, gen. mgr.; 26,130 met.; gen. 415,000 kW coal, 1,583,709,000 kWh; pur. 305,800 kWh; rev. \$47,318,490. (1900)*†

PADUCAH Power System, 1400 Kentucky Ave., 42001, 502/442-2711, Olin Bryant, gen. mgr.; 20,579 met.;

no gen.; pur. 468,688,512 kWh; rev. \$24,621,682. (TVA) (1961)*†

PARIS, City of, Combined Utils., 800 Pleasant St., 40361, 606/987-2630, R. D. Harris, supt.; 2,243 met.; gen. 11,597 (eng.-standby); 88,311 kWh; pur. 31,102,989 kWh; rev. \$1,058,633. (1931)*⁶

PRINCETON Elec. Plant Bd., Box 608, 42445, 502/365-2031, Walter R. Smith, supt.; 3,797 met.; no gen.; pur. 71,589,560 kWh; rev. \$4,416,547. (TVA) (1961)*†

PROVIDENCE Mun. Utils., North Willow St., Box 128, 42450, 502/667-5463, William C. Villines, mayor; 1,900 met.; no gen.; pur. 20,030,400 kWh; rev. \$1,620,499. (1921)³

RUSSELLVILLE, Elec. Plant Bd., Box 418, 42276, 502/726-2466, Larry Wilcutt, supt.; 3,864 met.; no gen.; pur. 99,215,419 kWh; rev. \$5,049,955. (TVA) (1942)*†

VANCEBURG Elec. System, 611 Front St., Box 489, 41179, 606/796-2641, Donald Burton, supt.; 2,305 met.; gen. 70,000 kW hydro, 342,100,266 kWh; pur. 3,027,000 kWh; rev. \$15,773,500. (1939)*†

WILLIAMSTOWN City Utils., 400 N. Main St., 41097, 606/824-3352, Jeffrey Clemons, supt.; 1,297 met. (1925)†

LOUISIANA

ABBEVILLE, City of, 304 Charity St., 70510, 318/893-8550, R. Brady Broussard, mayor; 4,891 met.; no gen.; pur. 93,924,040 kWh; rev. \$6,101,186. (1898)†

ALEXANDRIA, Utils. Div., City Hall, Box 71, 71301, 318/473-1100, Sonny Craig, dir. of utils.; 21,532 met.; gen. 175 kW gas (steam turbine), 424,487,000 kWh; pur. 91,306,000 kWh; rev. \$26,107,000. (1907)†

BOYCE Mun. Water & Light Plant, 71499, 318/793-2175, Lynn Basco, supt.; 800 met.; no gen.⁷

ERATH, Town of, 115 W. Edwards, 70533, 318/937-8401, Ginger Landry, 794 met.; no gen.; pur. 13,922,000 kWh; rev. \$569,472.⁷

GUEYDAN Mun. Plant, 600 Main St., 70542, 318/536-9415, Joe Breaux, supt.; 858 met.; no gen.; pur. 14,255,000 kWh; rev. \$668,954.⁷

HOUMA, Terrebonne Parish Consolidated Government, Box 6097, 70361, 504/873-6448, Tom Bourg, mgr., elec. gen.; 14,534 met.; gen. 98,000 kW, 85,000 kW gas, 13,000 kW dual-fuel, 108,706,997 kWh; pur. 139,665,599 kWh; rev. \$9,342,639. (1898)*†

JONESVILLE Power & Light Dept., Box 428, 71343, 318/339-8596, Sim Nichols, supt.; 1,337 met.; no gen.; pur. 30 million kWh.⁷

KAPLAN Mun. Water & Light Plant, 511 Cushing Ave., 70548, 318/643-8628, Jimmy Perrin, supt.; 2,182 met.⁷

LAFAYETTE, City of, Utils. System, Box 4017-C, 70502, 318/261-8800, T. J. Labbe, dir. of utils.; 37,667 met.; gen. 621,000 kW, 369,000 kW gas (steam turbine), 252,000 kW coal (steam turbine); 1,960,996,000 kWh; pur. 449,013,000 kWh; rev. \$68,639,421. (1897)*†

MINDEN Light & Water Dept., Box 580, 71119, 318/377-2144, Gordon Bartage, supt.; 6,208 met.; gen. 36,000 kW, 25,000 kW steam, 9,000 kW dual-fuel, 2,000 kW oil-fired eng.; 3,252,675 kWh; pur. 112,745,000 kWh; rev. \$6,959,200. (1920)†

MORGAN CITY, City of, Utility Dept., Box 1218, 70381, 504/385-1770, Ken Morgan, util. dir.; 6,209 met.; gen. 75,000 kW, 70,000 kW gas (steam turbine), 5,000 kW gas (eng.); 35,069,000 kWh; pur. 133,595,000 kWh; rev. \$10,832,486. (1934)†

NATCHITOCHES, City of, Box 37, 71458-0037, 318/352-2901, Robert J. Tynes, dir. utils.; 6,101 met.; gen. 52,000 kW, 44,000 kW gas (steam), 8,000 kW dual-fuel (eng.); pur. 140,000,000 kWh. (1901)†

NEW ROADS Mun. Light & Water, 237 W. Main St., 70760, 504/638-8047, Roy E. Davis, supt. of utils.; 2,000 met.; gen. 9,500 kW dual-fuel (eng.); 920,500 kWh; pur. 34,959,000 kWh; rev. \$2,745,000. (1903)†

OPELOUSAS Power Plant, Corner of Railroad & Guidry, Box 712, 70570, 318/942-6997, Tim Boyd, supt.; gen. 38,000 kW gas (steam turbine), 1,982,000 kWh. (Leased July 1, 1981, for 10 years to Southwest Louisiana Electric Corp.) (1930)†

PLAQUEMINE City of, Light & Water, Box 777, 70764, 504/687-4796, Max Albritton, util. supt.; 4,500 met.; gen. 44,000 kW gas, 2,000 kW oil-fired, 1 million kWh; pur. 75 million kWh; rev. \$8,950,000. (1949)*†

RAYNE, Mun. Power Plant, 201 3rd St., Box 69, 70578, 318/334-5870, Pierre Gary, supt.; 3,783 met.; no gen.; pur. 61,386,000 kWh; rev. \$3,149,550. (1903)†

RUSTON, City of, Utils. System, Box 280, 71270, 318/255-1316, William Zack Spivey, supt. of utils.; 7,987 met.; gen. 81,001 kW gas (steam turbine), 83,132,940 kWh; pur. 8,210,000 kWh; rev. \$14,747,739. (1920)*†

SABINE RIVER POWER AUTHORITY, Box 94245, Baton Rouge 70804-9245, 504/379-1053, Jim Frederick, staff atty., 3 met. (All output sold to private power companies.)†

ST. MARTINVILLE, City of, 121 New Market St., 70582; 318/394-6235, Wilson Dore, supt.; 2,785 met.; pur. 39,010,000 kWh; rev. \$1,928,125.⁷

VIDALIA, City of, Box 2010, 71373, 318/336-5206, Sam Randazzo, mayor.; 2,278 met.; no gen.; pur. 43,679,000 kWh; rev. \$2,484,018. (1905)*†

VINTON, Town of, 1200 Horridge St., 70668, 318/589-7453, Raymond Guillory, supt. pub. works; 1,618 met.; no gen.; pur. 23,199,000 kWh; rev. \$1,434,635. (1910)*†

WELSH, Town of, Box 786, 70591-0786, 318/734-2231, Robert Louviere, supt.; 1,485 met.; no gen.; pur. 26,406,000 kWh; rev. \$1,399,728. (1888)*†

WINNFIELD, City of, Utils. Dept., Box 312, 71483, 318/628-4452, Wayne McCullen, elec. supt.; 3,053 met.; no gen.; pur. 59,892,000 kWh; rev. \$1,526,043. (1945)†

MAINE

HOULTON Water Co., 21 Bangor St., Box 726, 04730, 207/532-2250 or 2259, John L. Clark, gen. mgr.; 4,772 met.; no gen.; pur. 76,008,495 kWh; rev. \$4,220,086. (1908)*†

KENNEBUNK Light & Power Dist., 36 Water St., 04043, 207/985-3321, Chester F. Oiler, treas.-gen. mgr.; 3,759 met.; gen. 1,580 kW, 580 kW hydro, 1,000 kW oil (eng.), 2,213,700 kWh; pur. 69,201,313 kWh; rev. \$3,696,221. (1893)†

LEWISTON City of, Island Ave., 04240, 207/784-5753, Denis R. Caron, elec. supt.; (no residential meters; used for water pumping and street lighting—excess sold to Central Maine Power Co.); gen. 750 kW

MAINE (continued)

hydro, 5.1 million kWh. Municipal use only.⁷

LUBEC Water & Elec. Dist., 24 Water St., Box 128, 04652, 207/733-5526, W. Milo Haskins, mgr.; 1,165, met.; no gen.; sales 7,583,138 kWh; rev. \$671,089, (1951)*⁷

MADISON, Elec. Works, 26 Weston Ave., Box 190, 04950, 207/696-4401, George D. Stoutamy, supt.; 2,086 met.; gen. 300 kW hydro, 2,219,400 kWh; pur. 21,771,000 kWh; rev. \$1,327,028. (1897)⁷

MATINICUS PLANTATION Elec. Co., Matinicus, 04851, 207/366-3629, Betsy Burr, assessor; 102 met.; gen. 165 kW oil-fired (eng.), 207,680 kWh; rev. \$53,381. (1976)⁷

WAN BUREN Light & Power Dist., 67 Main St., 04785, 207/868-3321, Louis Morneau, mgr.; 1,436 met.; no gen.; pur. 14,882,400 kWh; rev. \$908,507. (1917)⁷

MARYLAND

BERLIN, Town of, 10 Williams St., 21811, 301/641-2770, Debbie Parker, clk-treas.; 1,250 met. (1919)⁶

EASTON Utils. Comm., 142 N. Harrison St., Box 1189, 21601, 301/822-6110, Roger C. Judd, gen. mgr.; 6,457 met.; gen. 47,810 kW, 29,950 kW oil (eng.), 17,860 kW dual-fuel (eng.), 29,902,004 kWh; pur. 129,254,220 kWh; rev. \$9,902,858. (1914)*⁷

HAGERSTOWN Mun. Elec. Light Plant, 600 S. Cannon Ave., 21740, 301/790-2600, Kenneth L. Alexander, actg. util. mgr.; 16,854 met.; gen. 21,000 kW, 20,000 kW (steam turbine), 1,000 kW oil (eng.), 88,000 kWh; pur. 267,330,000 kWh; rev. \$12,488,122.*⁷

ST. MICHAELS, (leased to Delmarva Power & Light Co.)

THURMONT Mun. Light Co., 10 Frederick Rd., 21788, 301/271-7872, Marion Wm. Rice, supt. pub. wks.; 1,555 met.; no gen.; pur. 40,080,000 kWh; rev. \$1,071,126. (1910)⁶

WILLIAMSPORT Elec. Light Plant, Town Hall, 21795, 301/223-7711, D. K. Spickler, supt.; 800 met.; no gen.; pur. 14.3 million kWh; rev. \$695,325.⁵

MASSACHUSETTS

(The area code for communities near and including Brockton, Lawrence, Lowell and Worcester will change to 508 on July 16.)

ASHBURNHAM Mun. Light Plant, 86 Central St., 01430, 617/827-4423, Robert W. Gould, mgr.; 2,071 met.; no gen.; pur. 18,715,770 kWh; rev. \$1,635,290. (1908)⁵

BELMONT Mun. Light Dept., 450 Concord Ave., 02178, 617/484-2780, Kenneth L. Conroy, mgr.; 10,529 met.; no gen.; pur. 101,071,680 kWh; rev. \$6,936,763. (1898)*⁷

BOYLSTON, Town of, Mun. Light, Sanatorium Rd., 01505, 617/869-2626, Bradford White, mgr.; 1,617 met.; no gen.; pur. 22,882,574 kWh; rev. \$1,745,304. (1912)*⁷

BRAINTREE Elec. Light Dept., 44 Allen St., 02184, 617/848-1130, Walter R. McGrath, gen. mgr.; 12,950 met.; gen. 91,000 kW, 87,000 kW oil (comb. cycle), 4,000 kW oil (eng.), 39,376,000 kWh; pur. 319,694,136 kWh; rev. \$25,119,950. (1892)*⁷

CHESTER Mun. Elec. Light Dept., Middlefield St., 01011, 413/354-7811, Harold C. Jameson, comm. chrm.; 484 met.; no gen.; pur. 5,959,176 kWh; rev. \$481,802. (1926)⁷

CHICOPEE Mun. Lighting Plant, 725 Front St., 01020, 413/598-8311, Barry W. Soden, mgr.; 23,369 met.; gen. 15,560 kW nuclear, 8,250 kW oil-fired (eng.), 9,118,717 kWh; pur. 260,678,073 kWh; rev. \$22,921,223. (1894)*⁷

CONCORD Mun. Light Plant, 135 Keyes Rd., 01742, 617/369-2500, Richard S. Sproul, actg. supt.; 6,633 met.; no gen.; pur. 141,425,979 kWh; rev. \$9,937,965. (1905)*⁷

DANVERS Elec. Div., 2 Burroughs St., 01923, 617/774-0005, Michael W. Madore, elec. supt.; 9,869 met.; no gen.; pur. 266,083,210 kWh; rev. \$19,902,697. (1889)*⁵

GEORGETOWN Mun. Light Dept., Moulton and W. Main Sts., 01833, 617/352-8611, Edward Stanley, mgr.; 2,186 met.; no gen.; pur. 25,511,800 kWh; rev. \$2,049,618. (1912)*⁶

GROTON Elec. Light Dept., Box 679, 01450, 617/448-6655, Roger H. Beettje, mgr.; 3,261 met.; no gen.; pur. 37,158,727 kWh; rev. \$2,653,353. (1909)*⁷

GROVELAND Mun. Light Dept., 23 School St., 01834, 617/372-1671, Gerald E. Hill, mgr.; 1,905 met.; no gen.; pur. 21,353,572 kWh; rev. \$1,388,411. (1907)*⁷

HINGHAM Mun. Light Plant, 19 Elm St., 02043-2599, 617/749-0134, Joseph Spadea Jr.; 8,787 met.; no gen.; pur. 135,639,344 kWh; rev. \$10,066,153. (1894)*⁷

HOLDEN Mun. Light Dept., 94 Reservoir St., 01520, 617/829-4316, Neil E. Murray, mgr.; 5,560 met.; no gen.; pur. 81,872,683 kWh; rev. \$5,808,239. (1912)*⁷

HOLYOKE Gas & Elec. Dept., 70 Suffolk St., 01040, 413/536-9311, George E. Leary, mgr.; 18,000 met.; gen. 20,000 kW, 18,000 kW (steam turbine), 2,600 kW hydro, 17,664,000 kWh; pur. 238,365,000 kWh; rev. \$23,501,592. (1902)*⁷

HUDSON, Town of, Light and Power Dept., 49 Forest Ave., 01749, 617/568-8736, Horst Huehmer, mgr.; 9,109 met.; gen. 19,600 kW; 3,000 kW oil (eng.), 16,600 kW dual-fuel (eng.), 19,600 kW hydro; 14,679,916 kWh; pur. 202,447,698 kWh; rev. \$13,582,242. (1897)*⁷

HULL Mun. Light Plant, 15 Edgewater Rd., 02045, 617/925-0051, Roger Jackson, mgr.; 5,400 met.; no gen.; pur. 35,000,000 kWh; rev. \$3.3 million. (1894)*⁷

IPSWICH, Elec. Dept., 222 High St., 01938, 617/356-4331, Donald R. Stone, mgr.; 5,229 met.; pur. 73,047,427 kWh. (1904)*⁶

LITTLETON Elec. Light Dept., Box 2406, 01460, 617/486-3104, Curtis J. Lanciani, gen. mgr.; 4,774 met.; no gen.; pur. 99,584,825 kWh; rev. \$8,495,248. (1912)*⁷

MANSFIELD Mun. Elec. Dept., 50 West St., 02048, 339-4712, John Larch, gen. mgr.; 5,535 met.; no gen.; pur. 162,790,413 kWh; rev. \$12,262,921. (1903)*⁷

MARBLEHEAD Mun. Light Dept., 80 Commercial St., Box 369, 01945, 617/631-0240, Richard L. Bailey, gen. mgr.; 9,930 met.; gen. 5,000 kW (eng.), 921,144 kWh; pur. 91,390,466 kWh; rev. \$6,841,388. (1894)*⁷

MERRIMAC Mun. Light Dept., 2 School St., 01860, 617/346-8311, Richard Kennedy, mgr.; 1,835 met.; no gen.; pur. 16,809,013 kWh; rev. \$1,235,100. (1904)*⁵

MIDDLEBORO Gas & Elec. Dept., 32 S. Main St., 02346, 617/947-0990, John Dunfee, mgr.; 9,853 met.; no gen.; pur.

130,018,834 kWh; rev. \$10,894,168. (1893)*⁷

MIDDLETON Mun. Light Dept., S. Main St., Box 68, 01949, 617/774-4313, Raymond J. Bastarache, mgr.; 1,913 met.; no gen.; pur. 49.3 million kWh; rev. \$3,686,247. (1914)*⁵

NORTH ATTLEBORO Elec. Dept., Box 790, 02761, 617/699-7541, David Sweetland, mgr.; 9,729 met.; no gen.; pur. 167,055,168 kWh; rev. \$13,009,721. (1894)*⁷

NORWOOD Mun. Light Dept., 206 Central St., 02062, 617/762-3203, Malcolm McDonald, supt.; 13,048 met.; no gen.; pur. 246,066,698 kWh; rev. \$20,292,455. (1907)*⁶

PAXTON Mun. Light Dept., 578 Pleasant St., 01612-1306, 617/756-9508, Harold L. Smith, mgr.; 1,332 met.; no gen.; pur. 17,526,484 kWh; rev. \$1,403,532. (1913)*⁶

PEABODY Mun. Light Plant, 70 Endicott St., 01960, 617/531-5975, Bruce P. Patten, mgr.; 20,265 met.; gen. 30,850 kW, 19,700 kW oil (comb. turbine), 11,150 kW oil (eng.), 4,131,000 kWh; pur. 363,491,601 kWh; rev. \$25,871,747. (1894)*⁷

PRINCETON Mun. Light Dept., 4 Town Hall Dr., Box 247, 01541-0247, 617/464-2815, Sharon A. Staz, mgr.; 1,272 met.; no gen.; pur. 10,520,568 kWh; rev. \$924,512. (1913)*⁷

READING, Town of, Mun. Light Dept., Box 150, 01867, 617/944-1340, Leonard D. Rucker, gen. mgr.; 21,947 met.; no gen.; pur. 553,204,107 kWh; rev. \$38,565,541. (1894)*⁷

ROWLEY Mun. Lighting Plant, 47 Summer St., 01969, 617/948-3992, G. Robert Merry, mgr.; 1,884 met.; no gen.; pur. 21,290,500 kWh; rev. \$1,459,268. (1910)*⁷

RUSSELL Mun. Light Dept., Main St., 01071, 413/862-4400, John Murphy, mgr.; 379 met.; no gen.; pur. 3,475,544 kWh; rev. \$238,142. (1921)⁵

SHREWSBURY's Elec. Light Plant, 100 Maple Ave., 01545-5398, 617/845-4881, Thomas R. Josie, gen. mgr.; 9,823 met.; gen. 13,750 kW oil (eng.), 4,073,000 kWh; pur. 199,747,661 kWh; rev. \$14,000,362. (1908)*⁷

SOUTH HADLEY, Elec. Light Dept., 85 Main St., 01075, 413/536-1050, Wayne D. Doerpholz, mgr.; 7,081 met.; no gen.; pur. 112,862,082 kWh; rev. \$9,259,914. (1914)⁷

MASSACHUSETTS (continued)

STERLING Mun. Light, 50 Main St., 01564, 617/422-6662, Mark V. Magger, mgr.; 2,193 met.; no gen.; pur. 31,509,661 kWh; rev. \$2,335,838. (1911)*⁵

TAUNTON Mun. Lighting Plant, 55 Weir St., 02780, 617/824-5844, Joseph Blain, gen. mgr.; 24,594 met.; gen. 135,000 kW, 25,000 kW oil (steam turbine), 110,000 kW dual-fuel (comb. cycle, 181,958,000 kWh; pur. 317,134,770 kWh; rev. \$32,583,757. (1897)*^{†7}

TEMPLETON Mun. Lighting Plant, 2 School St., Baldwinville, 01436, 617/939-5323, Gerald P. Skelton, mgr./enrg.; 2,911 met.; no gen.; pur. 58,735,396 kWh; rev. \$4,678,280. (1906)*⁷

WAKEFIELD Mun. Light Dept., 11 Albion St., 01880, 617/245-0027, William J. Wallace, mgr.; 10,294 met.; no gen.; pur. 135,400,622 kWh; rev. \$11,020,107. (1894)*^{†7}

WELLESLEY, Town of, 455 Worcester St., Wellesley Hills, 02181, 617/235-7600, Maurice R. Berdan, mgr.; 9,354 met.; no gen.; pur. 200,323,332 kWh; rev. \$13,495,209. (1892)*⁷

WEST BOYLSTON Mun. Lighting Plant, 4 Crescent St., 01583, 617/835-3681, Charles H. Coughlin, mgr.; 2,617 met.; no gen.; pur. 46,848,890 kWh; rev. \$3,465,579. (1910)*^{†7}

WESTFIELD Gas & Elec. Light Dept., 100 Elm St., 01085, 413/562-2377, Daniel Golubek, mgr.; 14,752 met.; no gen.; pur. 243,945,225 kWh; rev. \$21,659,380. (1899)*^{†6}

MICHIGAN

BARAGA, Village of, Box 290, 49908, 906/353-6237, J. H. Ross, supt.; 702 met.; no gen.; pur. 5.8 million kWh.⁵

BAY CITY Elec. Light & Power, 900 S. Water, 48706, 517/894-8345, Richard G. Harris, dir.; 14,782 met.; gen. 12,705 kW dual-fuel (eng.), 801,000 kWh; pur. 182,412,651 kWh; rev. \$10,819,680. (1886)*⁷

CHARLEVOIX City of, 210 State St., 49720, 616/547-3270, Edward Whitley, elec. supt.; 3,000 met.; no gen.; pur. 36,141,067 kWh; rev. \$2,602,114. (1900)*⁵

CHELSEA Elec. & Water Dept., 104 E. Middle St., 48118, 313/475-1771, Frederick A. Weber, village pres.; 1,568 met.; no gen.; pur.

26,408,091 kWh; rev. \$1,533,000. (1898)*⁷

CLINTON, Village of, 119 E. Michigan Ave., 49236, 517/456-4207, Richard W. Sharpe, village mgr.; 1,100 met.; no gen.; pur. 26,310,000 kWh; rev. \$1,905,812. (1893)*⁷

COLDWATER Bd. of Pub. Utils., 28 W. Chicago St., 49036, 517/279-9531, James R. Endicott, dir.; 5,353 met.; gen. 24,375 kW, 11,125 kW coal (steam turbine), 3,750 kW oil (eng.), 9,500 kW dual-fuel (eng.), 30,376,600 kWh; pur. 100,685,236 kWh; rev. \$10,083,313. (1891)*⁷

CROSWELL Light & Power Dept., 120 E. Sanborn Ave., 48422, 313/679-2120, Jeff Schock, mgr.; 1,033 met.; gen. 1,300 kW dual-fuel (oil-fired eng.), 12,000 kWh; pur. 21,218,000 kWh; rev. \$1,571,000. (1897)*⁵

CRYSTAL FALLS, City of, 401 Superior Ave., 49920, 906/875-6650, Angelo Diqui, chief electr.; 1,535 met.; gen. 1,000 kW hydro; 5,329,100 kWh; pur. 16,329,890 kWh; rev. \$909,463. (1891)*⁷

DAGGETT Elec. Dept., 49821, 906/753-6319, Paul Hansen, maint.; 135 met.; no gen.; pur. 1,273,400 kWh; rev. \$71,196. (1912)*⁵

DETROIT, City of, Public Lighting, 9449 Grinnell, 48213, 313/267-7258, William F. Gaughan, actg. supt.; 1,473 met.; gen. 179,000 kW, 119,000 kW oil (steam turbine), 60,000 kW gas (steam turbine), 233,985,000 kWh; pur. 510,136,200 kWh; rev. \$47,505,000. (1893)*⁷

DOWAGIAC, City of, Elec. Util. Dept., Dept. of Pub. Services, 203 Chestnut St., 49047, 616/782-8200, Melvin L. Lyons, dir.; 2,560 met.; gen. 3,835 kW, 2,700 kW oil, 1,135 kW dual-fuel (eng.), 2,337,000 kWh; pur. 47,718,000 kWh; rev. \$3,000,000. (1930)*⁷

EATON RAPIDS, City of, Municipal, 200 S. Main St., 48827, 517/663-8118, Dennis O. Craun, city mgr.; 1,923 met.; no gen.; pur. 28,887,400 kWh; rev. \$1,719,497. (1898)*⁷

ESCANABA Mun. Elec. Util., 120 N. Eighth St., 49829, 906/786-0061, Edwin A. Korpi, supt.; 7,407 met.; gen. 25,000 kW steam; pur. 87.8 million kWh; rev. \$6,713,521. (1894)*⁵

GLADSTONE, City of, 1100 Delta Ave., Box 32, 49837, 906/428-3737, Howard W. Keeton, city mgr.; 2,597 met.; no gen.; pur. 21,510,500 kWh; rev. \$1,558,100. (1928)*⁵

GRAND HAVEN Bd. of Light & Power, 650 Harbor Ave., 49417, 616/842-6250, Glenn W. Eaton Jr., bd. chmn.; 9,364 met.; gen. 107,345 kW, 85,000 kW coal (steam turbine), 13,215 kW oil (eng.), 9,130 kW gas (eng.), 200,222,100 kWh; pur. 42,544,279 kWh; rev. \$17,588,942. (1896)*⁷

HARBOR SPRINGS, City of, Mun. Elec. Util., 170 Zoll St., 49740, 616/526-2122, Douglas V. Porter, supt., elec. dist.; 2,673 met.; no gen.; pur. 22,486,991 kWh; rev. \$1,868,931. (1898)*⁷

HART Hydro Elec., 407 Water St., 49420, 616/873-2488, Charles Eisenlohr, supt.; 1,272 met.; gen. 5,062 kW, 4,742 kW dual-fuel (eng.), 320 kW hydro, 830,000 kWh; pur. 29,042,681 kWh; rev. \$1,206,000. (1927)*⁷

HILLSDALE Bd. of Pub. Utils., City Hall, 49242, 517/437-3387, Ronald D. Neer, dir. of utils.; 5,160 met.; gen. 22,028 kW, 2,740 kW oil (eng.), 19,288 kW dual-fuel (eng.), 3,133,000 kWh; pur. 113,135,500 kWh; rev. \$8,601,258. (1893)*⁷

HOLLAND Bd. of Pub. Works, 268 River Ave., 49423, 616/394-1320, Tim Morawski, gen. mgr.; 16,280 met.; gen. 76,900 kW, 56,900 kW coal (steam turbine), 20,000 kW oil (combust. turbine), 346,992,748 kWh; pur. 101,752,281 kWh; rev. \$20,653,681. (1893)*^{†7}

KENT COUNTY Dept. of Pub. Works, 1500 Scribner Ave., Grand Rapids, 49504, 616/774-3594, David R. Despres, dir. (Sale of 12 MW to 15 MW to Consumers Power Co., from waste refuse disposal plant under construction, scheduled for 1989)*⁶

L'ANSE, Village of, 101 Main St., 49946, 906/524-7393, Bruce G. Carlson, supt.; 1,500 met.; no gen.; pur. 10,862,000 kWh; rev. \$724,000. (1908)*⁵

LANSING Bd. of Water & Light, 123 W. Ottawa St., 48933, 517/371-6000, Joseph Pandey Jr., dir. and gen. mgr.; 83,408 met.; gen. 623,347 kW, 622,216 kW coal (steam turbine), 1,131 kW hydro, 2,511,682,725 kWh; pur. 370,000 kWh; rev. \$103,330,562. (1892)*^{†7}

LOWELL Light & Power, 127 N. Broadway, 49331, 616/897-8402, Herbert Haines, supt.; 1,869 met.; gen. 2,200 kW oil-fired eng., 3,600 kW dual-fuel (eng.), 149,882 kWh; pur. 33,470,000 kWh; rev. \$1,598,566. (1895)*⁶

MARQUETTE, Bd. of Light & Power, 2200 Wright St., 49855,

906/228-6900, David E. Hickey, dir.; 13,614 met.; gen. 119,438 kW, 77,358 kW coal (steam turbine), 23,000 kW oil (combust. gas turbine), 15,130 kW oil (eng.), 3,950 kW hydro, 221,407,630 kWh; pur. 6,191,000 kWh; rev. \$17,434,198. (1889)*⁶

MARSHALL City Water & Elec. Works, 109 E. Michigan Ave., 49068, 616/781-3967, Richard C. Ashdown, admr.; 3,818 met.; gen. 11,357 kW, 11,038 kW dual-fuel (eng.), 319 kW hydro, 1,509,202 kWh; pur. 76,521,202 kWh; rev. \$6,365,666. (1892)*⁷

MEGAUNEE City of, Box 70, 49866, 906/475-7220, John Korhonen, city mgr.; 2,280 met.; no gen.; pur. 20,405,000 kWh; rev. \$1,198,000.*⁶

NEWBERRY Water & Light, 307 E. McMillan, 49868, 906/293-8531, Meredith (Moe) DeVerna, supt.; 1,402 met.; gen. 4,540 kW oil (eng.), 995,729 kWh; pur. 16,380,936 kWh; rev. \$1,024,000. (1925)*⁶

NILES, Utils. Dept., 602 E. Main St., Box 217, 49120, 616/683-4700, S. A. Brett, utils. mgr.; 6,674 met.; gen. 460 kW hydro, 3,408,200 kWh; pur. 105,264,000 kWh; rev. \$6,325,425. (1894)*^{†7}

NORWAY City of L&P, 915 Brown St., 49870, 906/563-9641, R.J. France, city mgr.; 2,896 met.; gen. 3,500 kW hydro, 26,064,500 kWh; pur. 2,708,300 kWh; rev. \$940,592. (1904)*⁵

PAW PAW, Dept. of Pub. Works, 110 E. Berrien St., Box 179, 49079, 616/657-3169, Ronald F. Wheeler, supt. of pub. works and mgr. of utils.; 1,758 met.; no gen.; pur. 28,137,600 kWh; rev. \$1,975,303. (1898)*^{†6}

PETOSKEY, City of, Elec. Util., 200 Division St., 49770, 616/347-4105, George Korthauer, city mgr.; 3,366 met.; no gen.; pur. 66,343,200 kWh; rev. \$4,028,951. (1898)*⁷

PORTLAND, City of, Mun. Elec. Dept., 723 East Grd. River, 48875, 517/647-6912, Jon Hyland, actg. supt.; 1,908 met.; gen. 1,120 kW oil-fired eng., 375 kW hydro, 1,817,000 kWh; pur. 20,654,517 kWh; rev. \$1,245,955. (1896)*⁷

ST. LOUIS Mun. Elec. Util., 412 N. Mill St., 48880, 517/681-3351, Ron Gibson, supt.; 1,736 met.; gen. 2,155 kW oil, 1,360 kW gas (eng.), 425 kW hydro, 2,983,145 kWh; pur. 14,400,000 kWh; rev. \$925,011. (1899)*⁵

SEBOWING Light & Water Dept., 110 W. Main, 48759, 517/883-2700, Arthur G. Reinhold,

supt.; 1,100 met.; gen. 4,000 kW oil-fired eng.; 6,000 kW dual-fuel (eng.); 3 million kWh; pur. 25 million kWh; rev. \$2,100,000. (1911)*⁵

SOUTH HAVEN Bd. of Pub. Utils., Box 507, 49090, 616/637-5211, Scott Ratter, city mgr.; 5,596 met.; no gen.; pur. 98,337,600 kWh; rev. \$4,269,669. (1902)*⁵

STEPHENSON City of, 49887, 906/753-2225, James Beaudoin, utils. supt.; 457 met.; no gen.; pur. 5,699,200 kWh; rev. \$316,594. (1920)*⁷

STURGIS, City of, Box 280, 49091, 616/651-2321, John E. Brand, city mgr.; 6,010 met.; gen. 12,200 kW, 3,600 kW oil (eng.), 6,000 kW dual-fuel (eng.), 2,600 kW hydro, 18,433,410 kWh; pur. 139,637,700 kWh; rev. \$9,925,668. (1910)*⁷

TRAVERSE CITY Light & Power, Box 592, 49685-0592, 616/922-4470, Rod Simsa, actg. exec. dir.; 7,279 met.; gen. 33,800 kW, 19,200 kW coal (steam turbine), 7,500 kW gas (steam turbine), 4,800 kW waste (steam turbine), 2,300 kW hydro, 184,619,220 kWh; pur. 106,722,561 kWh; rev. \$12,489,172. (1912)*⁷

UNION CITY Elec. Dept., 208 N. Broadway, 49094, 517/741-8591, James E. Spencer, supt.; 1,300 met.; 1,500 kW eng.⁵

WAKEFIELD Light & Power Dept., City Hall, 1211 Hancock St., 49968, 906/229-5132, Larry Anderson, util. supt.; 1,130 met.; no gen.; pur. 11,410,689 kWh; rev. \$580,382. (1920)*⁷

WYANDOTTE City of, Dept. of Mun. Service, 3005 Biddle Ave., 48192, 313/282-7100, Dale O. Simmons, gen. mgr.; 14,041 met.; gen. 65,500 kW (steam turbine), 187,036,000 kWh; pur. 5,842,800 kWh; rev. \$11,952,701. (1894)*⁷

ZEELAND Bd. of Pub. Works, 350 E. Washington Ave., 49464, 616/772-6212, Glenn Veldheer, actg. util. mgr.; 2,600 met.; gen. 22,300 kW dual-fuel (eng.), 94,539,450 kW; pur. 54,746,200 kWh; rev. \$5,485,763. (1935)*⁷

MINNESOTA

ADA, City of, Drawer 32, 56510, 218/784-2211, Tom Sweetland, pub. wks. dir.; 1,040 met.; no gen.; pur. 19,414,120 kWh; rev. \$606,970.*⁷

ADRIAN Pub. Util., Box 187, 56110, 507/483-2680, Terrence Miller, supt. of utils.; 635 met.; gen. 1,106 kW oil-fired eng. (standby); pur. 10,292,174 kWh; rev. \$383,237. (1929)*⁷

AITKIN Pub. Util. Comm., 120 First St. N.W., 56431, 218/927-3222, Wilfrid Fossum, mgr.; 1,460 met.; no gen.; pur. 22,858,000 kWh; rev. \$1,308,700. (1892)*⁷

ALEXANDRIA Light & Power, 316 Fillmore St., Box 609, 56308, 612/763-6501, Dave Nelson, gen. mgr.; 6,757 met.; gen. 9,145 kW dual-fuel (eng.) 138,991 kWh; pur. 145,579,140 kWh; rev. \$5,623,232. (1889)*⁷

ALPHA, Mun. Utils., Box 97, 56111, 507/847-3557, Jeanne Gettler, clerk; 120 met.; no gen.; pur. 57,601 kW; rev. \$92,623. (1915)*⁵

ALVARADO Mun. Elec. Dept., Box 832, 56710, 218/965-4911, Herb Monk, supt.; 190 met.; no gen.*⁷

ANOKA, City of, 2015 First Ave. North, 55303, 612/421-6630, ext. 172, Dan Voss, util. dir.; 8,423 met.; no gen.; pur. 154,780,800 kWh; rev. \$7,441,927. (1901)*⁷

ARLINGTON, City of, Elec. Dept., 312 W. Alden St., Box 466, 55307, 612/964-2378, John McClelland, elec. supt.; 861 met.; no gen.; pur. 12,569,600 kWh; rev. \$675,984.*⁵

AUSTIN Utils., Box 368, 55912, 507/433-8886, Michael L. Enfield, gen. mgr.; 11,129 met.; gen. 63,340 kW, 57,340 kW coal (steam turbine), 6,000 kW gas (combustion turbine), 56,766,000 kWh; pur. 205,693,650 kWh; rev. \$15,033,478. (1900)*⁷

BAGLEY Pub. Utils. Comm., Box M, 56621, 218/694-2300, Bernie Stavig, supt.; 530 met.; no gen. (1907)*⁵

BARNESVILLE, City of, Elec. Utils., Box 550, 56514, 218/354-2292, H. Gilbertson, supt.; 1,164 met.; no gen.; pur. 15,985,535 kWh; rev. \$588,669. (about 1898)*⁷

BAUDETTE, City of, Box 548, 56623, 218/634-2432, George Taylor Jr., supt.; 672 met.; gen. 1,936 kW (eng.-standby), 2,562 kWh; pur. 10,716,000 kWh; rev. \$576,387.*⁵

BENSON, City of, 1411 Pacific Ave., 56215, 612/843-4775, James L. Ehret, util. supt.; 1,769 met.; gen. 3,353 oil (eng.), 38,820 kWh; pur. 24,135,750 kWh; rev. \$850,692. (1902)*⁷

BIGELOW, City of, Box 67, 56117, 507/683-2682, George Reitmeier, supt.; 148 met.*⁷

BIWABIK Public Utils., Box A, 55708, 218/865-6740, Richard E. Harju, supt.; 827 met.; no gen.; pur. 6,527,779 kWh; rev. \$445,879. (1904)*⁷

BLOOMING PRAIRIE Pub. Utils., 146 Third Ave. SE., Box 55, 55917, 507/583-6683, Richard D. Kittelson, gen. mgr.; 929 met.; gen. 3,598 kW oil-fired eng., 3,500 kWh; pur. 13,670,400 kWh; rev. \$763,687. (1931)*⁷

BLUE EARTH Light & Water Dept., 118 E. Sixth St., 56013, 507/526-2191, Jeffrey Jansen, gen. mgr.; 2,092 met.; gen. 7,000 kW, 2,000 kW (steam turbine), 5,000 kW (eng.), 57,900 kWh; pur. 37,216,100 kWh; rev. \$2,240,916. (1895)*⁷

BRAINERD Water & Light Dept., 101 Laurel St., Box 373, 56401, 218/829-8726, Walter Sjolund, supt.; 6,522 met.; no gen.; pur. 116,947,000 kWh; rev. \$6,630,146. (1892)*⁷

BRECKENRIDGE Pub. Util., 420 Nebraska Ave., Box 410, 56520, 218/643-4681, Ken Twito, supt.; 1,847 met.; no gen.; pur. 33,551,394 kWh; rev. \$1,247,544. (1907)*⁷

BREWSTER, Light & Power, 906 3rd Ave., 56119, 507/842-5936, Kenneth Kluver, supt.; 267 met.; no gen.; pur. 3,308,974 kWh; rev. \$212,498. (1914)*⁷

BROWNTON Mun. Elec. Light Dept., 528 2nd St. N., 55312, 612/328-5318, Carl Wachter, mayor; 340 met.; no gen.; pur. 4,311,200 kWh; rev. \$203,898. (1921)*⁵

BUFFALO Mun. Util., 212 Central Ave., 55313, 612/682-1181, Gerald Moo, util. dir.; 2,082 met.; no gen.; pur. 35,624,000 kWh; rev. \$1,841,035. (1921)*⁵

BUHL Water & Light Dept., Box 704, 55713, 218/258-3217, Mike Miklovich, supt.; 500 met.; no gen.; pur. 4,314,294 kWh; rev. \$313,281.*⁷

CALEDONIA Mun. Light and Water Dept., 231 E. Main St., 55921, 507/724-3450, Robert Nelson, city clerk/admin.; 1,351 met.; no gen.; pur. 15,136,000 kWh; rev. \$920,000. (1903)*⁷

CEYLON Water & Light Dept., Office of the clerk, 56121, 507/632-4653, William F. Ditz, city clerk/treasurer; 273 met.; no gen.; sales 2,980,000 kWh; rev. \$137,620.*⁵

CHASKA, Pub. Utils., 205 E. Fourth St., 55318, 612/448-2851, Steve J. Wilker, supt., pub. utils.; 3,369 met.; no gen.; pur. 79,536,000 kWh; rev. \$4,058,326. (approx. 1905)*⁷

DELANO Mun. Utils., 11 W. Bridge Ave., 55328, 612/972-3211, Harold J. Becker, util. supt.; 1,100 met.; gen. 2,276 kW oil (eng.), 2,505 kW dual-fuel eng., 297,900 kWh; pur. 18,230,720 kWh; rev. \$954,959. (1932)*⁷

DETROIT LAKES Pub. Util. Dept., 1025 Roosevelt Ave., Box 647, 56501, 218/847-7609, Greg Sherman, supt.; 5,087 met.; no gen.; pur. 90,973,612 kWh; rev. \$4,242,449. (1902)*⁷

DUNNELL, City of, Box 94, 56127, 507/695-2942, Cindy Anderson, clerk; 135 met.; no gen.; pur. 1,026,600 kWh; rev. \$58,600. (1920s)*⁵

EAST GRAND FORKS Water & Light Dept., Box 322, 56721, 218/773-1163, Jerry J. Keller, actg. supt.; 3,700 met.; no gen.; pur. 96,918,062 kWh; rev. \$3,583,048. (1906)*⁵

EITZEN, City of, Light & Power, Box 458, 55931, 507/495-3381, J. Anthony Stokman, clerk-treas.; 131 met.; no gen.; pur. 1,822,800 kWh; rev. \$119,486. (est. 1946)*⁷

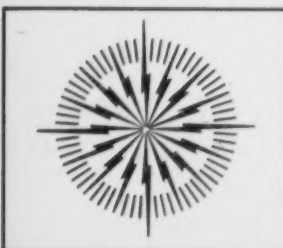
ELBOW LAKE Mun. Elec., Box 1079, 56531, 218/685-4483, Jeff Holsen, gen. mgr.; 760 met.; no gen.; pur. 13,454,766 kWh; rev. \$735,886. (1965)*⁷

ELK RIVER Mun. Utils., 322 King Ave., 55330, 612/441-2020, Bill Birrenkott, gen. mgr.; 3,146 met.; gen. 9,100 kW dual-fuel (eng.), 46,200 kWh; pur. 50,954,000 kWh; rev. \$3,275,000. (1945)*⁷

ELY Water & Light Dept., 209 E. Chapman St., 55731, 218/365-3225, Joseph Jarnick, supt.; 2,046 met.; no gen.; pur. 2,601,970 kWh; rev. \$1,581,504. (1890)*⁵

FAIRFAX Mun. Power, 206 S.E. First St., Box K, 55332, 507/426-7255, Lennis Arndt, supt.; 711 met.; gen. 1,800 kW (eng. standby), 31,650 kWh; pur. 12,221,000 kWh; rev. \$462,840.*⁷

FAIRMONT, City of, Pub. Utils. Comm., 115 S. Park St., 56031, 507/238-9461, Gary Klaphake, city admin.; 5,894 met.; gen. 36,000 kW, 24,000 kW dual-fuel (steam turbine),



MINNESOTA (continued)

12,000 kW dual-fuel (eng.), 5,354,000 kWh; pur. 136,354,695 kWh; rev. \$8,618,183. (1902)*⁷

FOSSTON Mun. Utils., 220 E. First St., 56542, 218/435-1737, Russell W. Earls, supt. pub. wks.; 864 met.; gen. 940 kW oil-fired eng. (standby), pur. 25,789,921 kWh; rev. \$954,742. (1941)⁵

GILBERT Water & Light, Box 548, 55741, 218/741-9617, Ken Hegman, elec. supt.; 932 met.; no gen.; pur. 9,478,758 kWh. (1908)⁵

GLENCOE Light and Power Comm., Mun. Elec. Plant, 305 11th St. East, 55336, 612/864-5184, Joe Adrian, mgr.; 2,102 met.; gen. 26,630 kW (eng.), 1,208,408 kWh; pur. 53,274,100 kWh; rev. \$2,810,260. (1938)*^{†7}

GRAND MARAIS, City of, Pub. Util. Comm., 15 N. Broadway, Box 83, 55604, 218/387-1848, Thomas Swenson, mgr.; 942 met.; gen. 4,019 kW eng., 66,400 kWh; pur. 12,247,000 kWh; rev. \$796,599. (1949)*^{†5}

GRAND RAPIDS Pub. Utils. Comm., 420 Pokegama Ave. N., Box 658, 55744, 218/327-2805, Anthony T. Ward, gen. mgr.; 4,970 met.; no gen.; pur. 103,664,697 kWh; rev. \$5,836,648. (1910)⁷

GRANITE FALLS, City of, Mun. Utils., 885 Prentice, 56241, 612/564-3011, William P. Lavin, city mgr.; 1,629 met.; gen. 1,250 kW hydro, 4,255,750 kWh; pur. 24,463,706 kWh; rev. \$252,749. (1890)*^{†7}

GROVE CITY Pub. Utils., Box 98, 56243, 612/857-2322, David Martin, supt.; 430 met.; no gen.; pur. 5,225,400 kWh; rev. \$261,576.⁷

HALSTAD Mun. Utils., 405 Second Ave. West, 56548, 218/456-2128, Daniel R. Duklet, supt.; 349 met.; gen. 1,060 kW oil (eng.), 1,900 kWh; pur. 8,733,585 kWh; rev. \$344,722. (1939)⁷

HARMONY, City of, Box 488, 55939, 507/886-8122, Norman Johnson, supt., pb. wks.; 533 met.; no gen.; pur. 6,744,000 kWh; rev. \$332,664.⁵

HAWLEY, Pub. Utils. 56549, 218/483-3331, L. L. Quam, city clerk; 775 met.; no gen.; pur. 8,529,185 kWh; rev. \$459,856. (1909)⁵

HENNING, Electric, 607 Second St., Box 55, 56551, 218/583-2402, Donald Hagen, elec. supt.; 447 met.; no gen.; pur. 7,430,044 kWh; rev. \$334,837. (1956)*^{†4}

HIBBING Pub. Utils. Comm., Box 249, 55746, 218/263-7515,

Thomas Bovitz, gen. mgr.; 7,110 met.; gen. 31,000 kW coal (steam turbine); pur. 63,603,000 kWh; rev. \$7,075,734. (1895)*⁷

HUTCHINSON Utils. Comm., 225 Michigan St., 55350, 612/587-4746, Ruth Hakel, gen. mgr.; 4,875 met.; gen. 57,980 kW, 25,000 kW oil (combust. turbine), 14,200 kW dual-fuel (comb. cycle), 18,780 kW dual-fuel (eng.), 3,446,000 kWh; pur. 180,831,000 kWh; rev. \$8,444,561. (1936)*^{†7}

JACKSON, City of, 504 Second St., 56143, 507/847-4410, Bill Holmes, utils. supt.; 1,691 met.; pur. 31,479,348 kWh; rev. \$1,328,566. (1913)*^{†7}

JANESVILLE Mun. Util., 219 N. Main, 56048, 507/234-5112, Alan Junkers, plant supt.; 880 met.; gen. 3,175 kW dual-fuel (eng.), 422,700 kWh; pur. 7,704,300 kWh; rev. \$508,000. (1939)*⁷

KANDIYOHI, City of, Box 276, 56251, 612/382-6110, Daryl Deisting, 400 met.; no gen.; pur. 3,818,600 kWh; rev. \$135,797.⁵

KASOTA Elec. Dept., Box 218, 56050, 507/931-3290, J. Neubert, supt.; 280 met.; no gen.; pur. 2,852,400 kWh; rev. \$168,000.⁵

KASSON Municipal, 122 W. Main St., 55944, 507/634-7302, Keith Houston, util. supt.; 1,500 met., no gen.; pur. 13,038,000 kWh; rev. \$695,289. (1937)⁶

KEEWATIN Pub. Utils., Box 190, 55753, 218/778-6544, Richard Nyhus, supvr.; 590 met.; no gen.; pur. 5,512,202 kWh; rev. \$263,692. (1927)⁷

KENYON Mun. Utility, 713 Second St., 55946, 507/789-6573, Lorry Willie, supt.; 750 met.; gen. 1,919 kW oil (eng.), pur. 10 million; rev. \$554,000. (1932)⁵

LAKE CITY Light & Water Comm., 205 West Center St., Box 388, 55041, 612/345-5383, Richard Abraham, city admin.; 2,420 met.; no gen.; pur. 68,119,776 kWh; rev. \$3,524,972. (1907)*⁷

LAKE CRYSTAL Pub. Util., 100 E. Robinson St., 56055, 507/726-2538, Alden Sutherland, mgr.; 925 met.; gen. 4,195 kW dual-fuel (eng.), 191,070 kWh; pur. 11,564,280 kWh; rev. \$689,289. (1937)⁵

LAKEFIELD Pub. Utils., Box 1023, 56150-1023, 507/662-6363, Richard Thompson, supt.; 929 met.; no gen.; pur. 11,570,894 kWh; rev. \$473,216. (1900)*^{†7}

LAKE PARK Pub. Utils., 401 Lake St., 56554, 218/238-5532, George Mattson, supt.; 374 met.; no gen.; pur. 6,584,294 kWh; rev. \$308,122. (1927)*^{†7}

LANESBORO Pub. Util., Box 333, 55949, 507/467-3722, Dale Olson; 512 met.; gen. 1,360 kW oil-fired eng., 160 kW hydro, 35,000 kWh; pur. 4,769,966 kWh; rev. \$286,197. (1902)⁵

LE SUEUR Mun. Utils., 228 N. Main, 56058, 612/665-3338, Mervin Hentges, supt.; 1,785 met.; no gen. pur. 53,407,200 kWh; rev. \$2,622,488. (1934)⁵

LITCHFIELD Pub. Utils., 421 W. Third St., 55355, Dallas E. Nelson, supt.; 2,731 met.; gen. 4,140 kW dual-fuel (eng.), 56,400 kWh; pur. 74,452,647 kWh; rev. \$2,160,452. (1889)*^{†7}

LUVERNE, City of, Mun. Utils., 203 E. Main, Box 348, 56156, 507/283-2388, Steven Perkins, city admin.; 2,235 met.; gen. 7,100 kW, 3,000 kW (steam turbine), 4,100 kW (eng.), 61,310 kWh; pur. 51,336,180 kWh; rev. \$1,739,807. (1893)*^{†7}

MABEL, City of, 55954, 507/493-5299, Jimmy Narum, city clerk; 450 met.; no gen.; pur. 210,000 kWh; rev. \$230,000. (1905)⁵

MADALIA Mun. Utils., 24 Abbott Ave. S.W., 56062, 507/642-8803, Steve Moses, mgr.; 1,200 met.; gen. 8,296 kW dual-fuel (eng.), 113,900 kWh; pur. 24,979,400 kWh; rev. \$1,305,715. (1939)*⁷

MADISON Mun. Utils., 404 6th Ave., 56256, 612/598-3239, Harold Hodge, supt.; 1,117 met.; gen. 960 kW (standby only); pur. 17,433,097 kWh; rev. \$796,540. (1898)*^{†6}

MARSHALL Mun. Utils., 113 S. Fourth St., Box 1087, 56258, 507/532-4451, F. Richard Voller, gen. mgr.; 4,952 met.; no gen.; pur. 219,824,932 kWh rev. \$7,532,526. (1894)*^{†7}

MELROSE Pub. Utils., 225 E. First St. N., 56352, 612/256-4278, Donald Salzmann, supt., pub. works; 1,249 met.; gen. 7,500 kW dual-fuel (comb. cycle-standby), 190,000 kWh; pur. 62,030,349 kWh; rev. \$2,229,003. (1905)*^{†7}

MOORHEAD Pub. Service Dept., Box 779, 56560, 218/299-5400, Tom Heller, gen. mgr.; 11,624 met.; gen. 33,000 kW, 23,000 kW coal (steam turbine), 10,000 kW oil (combust. turbine), 101,000 kWh; pur. 290,265,795 kWh; rev. \$8,872,911. (1895)*^{†7}

MOOSE LAKE Power & Light Comm., 401 Douglas, 55767, 218/485-4100, William Wesley, supt.; 784 met.; gen. 4,100 kW dual-fuel (eng.); pur. 13,396,000 kWh; rev. \$878,000. (1933)⁷

MORA Mun. Elec., 117 S.E. Railroad Ave., 55051, 612/679-1511, Robert A. Filson, city admin.; 1,542 met.; gen. 13,250 kW dual-fuel (combust. turbine), 1,282,000 kWh; pur. 50,585,130 kWh; rev. \$3,102,216. (1934)*⁷

MOUNTAIN IRON, City of, Box 505, 55768, 218/735-8267, Richard Anderson, supt. pub. wks.; 730 met.; no gen.; pur. 11,079,000 kWh; rev. \$727,769. (1919)*⁶

MOUNTAIN LAKE Mun. Utils., 1015 Second Ave., Drawer C, 56159, 507/427-2633, Harold Quiring, elec. supt.; 1,056 met.; gen. 44,582 kW oil-fired eng.; 1,800,000 kWh; pur. 17,844,915 kWh; rev. \$970,865. (1935)*^{†7}

NASHWAUK Pub. Utils. Dept., 301 Central Ave., 55769, 218/885-1210, Edward A. Bolf, gen. mgr.; 515 met.; no gen.; pur. 5,750,046 kWh; rev. \$308,748. (1910)⁷

NEWFOLDEN, City of, 56738, 218/874-3186, Sharol Wawrzyniak, treas.; 180 met.; no gen.; pur. 3,399,737 kWh; rev. \$154,370.⁷

NEW PRAGUE Utils., 300 E. Main St., 56071, 612/758-4447, Donald E. Meyer, supt.; 1,415 met.; gen. 18,000 kW dual-fuel (eng.), 569,800 kWh; pur. 44,806,290 kWh; rev. \$3,038,783. (1928)*⁷

NEW ULM Pub. Utils., 310 First North St., 56073, 507/359-8264, John R. Gilman, chief engr.; 6,073 met.; gen. 45,000 kW, 21,000 kW steam turbine, 24,000 kW oil (combust. turbine-standby); 62,735,860 kWh; pur. 72,427,000 kWh; rev. \$7,668,124. (1902)*^{†7}

NIELSVILLE, City of, Utils., 56568, Darlene Ruthenberg, city clerk; 62 met.; no gen.; pur. 1,103,184 kWh; rev. \$29,491.⁵

NORTH BRANCH Mun. Water & Light, 712 Maple St., Box 176, 55056, 612/674-7100, Bruce Walters, supt.; 836 met.; gen. 2,260 kW dual-fuel (eng.); 197,022 kWh; pur. 11,605,494 kWh; rev. \$841,000. (1941)*⁷

NORTH ST. PAUL, City of, 2526 E. 7th Ave., 55109, 612/770-4488, Ron Schuler, dir., elec. utils.; 5,466 met.; no gen.; pur. 62,070,400 kWh; rev. \$3,479,342. (1898)*⁷

OLIVIA, City of, 1009 W. Lincoln Ave., 56277, 612/523-2361, Robert

E. Ewer, supt. of pub. works; 1,249 met.; no gen.; pur. 24,412,728 kWh.⁷

ORTONVILLE Light Dept., 315 Madison Ave., 56278, 612/839-3428, Arthur Hamann, supt., light dept.; 1,327 met.; no gen.; pur. 25,469,241 kWh; rev. \$1,089,590. (1905)*†⁷

OWATONNA Pub. Utils., 208 S. Walnut Ave., Box 800, 55060, 507/451-2480, David M. Martin, gen. mgr.; 8,286 met.; gen. 45,000 kW, 26,000 kW gas (steam turbine-standby), 19,000 kW gas (combust. turbine-standby), 766,050 kWh; pur. 162,661,140 kWh; rev. \$8,427,011. (1924)*⁷

PETERSON, City of, Elec. System, Box 94, 55962, 507/875-2510, Richard Lee, mayor; 115 met.; no gen.; pur. 1,283,800 kWh; rev. \$77,175.⁷

PIERZ Elec. Dept., 56364, 612/468-6405, Harold M. Mayor, elec. comm.; 523 met.; no gen.⁵

PRESTON Pub. Utils., 109 St. Paul 2 S.W., 55965, 507/765-4541, Fred Nagle, supvr., city serv.; 800 met.; gen. 4,478 kW oil/dual-fuel (combust. turbine), 36,680 kWh; pur. 10 million kWh; rev. \$628,502. (1896)*⁵

PRINCETON Pub. Utils. Comm., 907 First St., Box 218, 55371, 612/389-2252, Harold R. Steppuhn, gen. mgr.; 1,714 met.; gen. 7,650 kW, 2,700 kW oil (eng.), 4,950 kW dual-fuel (eng.), 158,500 kWh; pur. 31,167,316 kWh; rev. \$2,146,413. (1938)*†⁷

PROCTOR Pub. Utils. Comm., 210 Third St., 55810, 218/624-4055, Joseph Knowlton, plant supt.; 1,311 met.; no gen.; pur. 14,645,100 kWh; rev. \$965,300. (1941)⁵

RANDALL Mun. Util., City Hall, 56475, 612/749-2159, Larry Sharon, clerk; 249 met.; no gen.⁵

REDWOOD FALLS Pub. Utils. Comm., 333 S. Washington, Box 48, 56283, 507/637-5789, Curtis G. Weber, supt.; 2,447 met.; gen. 8,000 kW, 7,800 kW dual-fuel (eng.-standby), 200 kW hydro, 3,942,854 kWh; pur. 51,095,932 kWh; rev. \$ 2,151,375. (1946)*†⁷

ROCHESTER Pub. Utils., 506 First Ave., NE., 55904-3613, 507/285-8970, Bob Pawelski, gen. mgr.; 29,140 met.; gen. 135,250 kW, 99,400 kW steam turbine, 32,990 kW gas combust. turbine, 2,860 kW hydro, 322,732,450 kWh; pur. 728,390,500 kWh; rev. \$39,696,913. (1892)*†⁷

ROSEAU Mun. Utils., 100 Second Ave., Box 307, 56751,

218/463-1542, Dale Drown, supt.; 1,400 met.⁵

ROUND LAKE City of, Box 72, 56167, 507/945-8127, Gary Jurgensen, supt.; 25045 met.⁵

RUSHFORD Municipal, 405 South Elm St., 55971, 507/864-2444, Robert A. Museus, clerk/admin.; 744 met.; no gen.; pur. 11,136,344 kWh; rev. \$613,494. (1901)⁶

RUSHMORE City of, Box 227, 56168, 507/478-4338, Lori Gruis, city clerk; 215 met.; no gen.; pur. 1,673,920 kWh.⁷

ST. CHARLES Light & Water Dept., 1242 Whitewater Ave., 55972, 507/932-3020, Gus Ihrke, pub. wks. supt.; 1,152 met.; no gen.; pur. 16,101,290 kWh; rev. \$956,351.⁶

ST. JAMES Public Utils., 124 Armstrong Blvd. S., 56081, 507/375-3241, Craig Christiansen, supt. of pub. wks.; 2,090 met.; no gen.; pur. 37,141,566 kWh; rev. \$1,389,445.*†⁵

ST. PETER Mun. Utils., 227 S. Front St., Box 299, 56082, 507/931-4840, Lewis Giesking, pub. works. dir.; 3,213 met.; no gen.; pur. 60,044,159 kWh; rev. \$3,138,520. (1891)*⁷

SAUK CENTRE Water, Light & Power Comm., 101 S. Main St., 56378, 612/352-6538, DeWayne Rubedor, supt.; 1,762 met.; no gen.; pur. 32,870,442 kWh; rev. \$1,154,551. (1916)*†⁷

SHAKOPEE Pub. Utils. Comm., 1030 E. Fourth Ave., 55379, 612/445-1988, Louis Van Hout, mgr.; 4,450 met.; no gen.; pur. 92,928,800 kWh; rev. \$4,142,270. (1900)*⁷

SHELLY Mun. Light Dept., Box 126, 56581, 218/886-8355, Dean Denison, mayor; 140 met.; no gen.; pur. 2,380,689 kWh; rev. \$98,787.⁵

SLEEPY EYE Pub. Utils., 130 Second Ave., N.W., 56085, 507/794-4371, D. H. Logue, supt. of utils.; 1,914 met.; gen. 5,472 kW, 2,000 kW coal (steam turbine), 1,250 kW gas (steam turbine), 722 kW oil (eng.), 1,500 kW dual-fuel (eng.), 3,970,324 kWh; pur. 25,212,832 kWh; rev. \$1,549,253. (1895)*⁵

SPRINGFIELD Pub. Utils. Comm., 14 N. Marshall Ave., 56087, 507/723-5290, Menno Mennenga, supt.; 1,187 met.; gen. 3,000 kW coal, 4,000 kW gas (steam turbine), 711,900 kWh; pur. 18,532,602 kWh; rev. \$986,411. (1894)⁵

SPRING GROVE Mun. Elec., 118 1st Ave. N.W., 55974, 507/498-5221, Robert Hillman, clerk/admin.;

585 met.; no gen.; pur. 12,460,800 kWh; rev. \$642,871.⁷

SPRING VALLEY Pub. Utils., 104 S. Section Ave., 55975, 507/346-7622, Robert G. Carson, supt.; 1,399 met.; gen. 8,376 kW, 6,400 kW dual-fuel (eng.), 1,976 kW oil (eng.), 268,300 kWh; pur. 15,432,000 kWh; rev. \$1,052,753. (1935)*†⁷

STAPLES, City of, 611 Iowa Ave., 56479, 218/894-2550, N. G. Schroeder, city adm.; 1,490 met.; no gen.; pur. 19,784,000 kWh; rev. \$996,042.*†⁷

STEPHEN City of, Box 630, 56757, 218/478-3803, Leonard Bazey, supt.; 390 met.; no gen.; pur. 10,445,875 kWh; rev. \$415,629. (1910)⁶

THIEF RIVER FALLS, City of, Mun. Utils., Box 528, 56701, 218/681-5816, John T. Anderson, supt. of utils.; 3,789 met.; gen. 5,991 kW, 5,441 kW oil-fired (eng.-standby), 550 kW hydro, 3,329,000 kWh; pur. 87,737,409 kWh; rev. \$3,518,000. (1901)*⁷

TRUMAN Pub. Utils., 56088, 507/776-6501, Robert H. Grefe, supt.; 810 met.; gen. 4,177 kW dual-fuel, 258,600 kWh; pur. 9,528,500 kWh; rev. \$578,537. (1938)*†⁵

TWO HARBORS, City of, 610 Second Ave., 55616, 218/834-5631, Robert Sellman, elec. supt.; 2,405 met.; no gen.; pur. 16,537,081 kWh; rev. \$1,162,491. (1909)⁷

TYLER Mun. Light & Power, 230 N. Tyler, 56178, 507/247-5556, Darwin Lutterman, supt.; 680 met.; 1,300 kW (eng.-standby); pur. 11,953,435 kWh; rev. \$490,204.*†⁵

VIRGINIA Dept. of Pub. Utils., Box 1048, 55792, 218/741-0740, James Mahon, gen. mgr.; 6,009 met.; gen. 32,000 kW coal (steam turbine), 71,052,000 kWh; pur. 24,955,000 kWh; rev. \$5,044,627. (1913)⁷

WADENA Mun. Light & Water, 104 N. Jefferson, 56482, 218/631-1813, Curt Punt, supt.; 2,397 met.; no gen.; pur. 46,860,443 kWh; rev. \$1,744,937. (1897)*†⁷

WARREN, City of, 126 W. Johnson Ave., 56762, 218/745-5343, Ralph H. Plencner, supt.; 862 met.; gen. 2,161 kW (eng.), 900 kWh; pur. 6,257,000 kWh; rev. \$746,400. (1902)⁵

WARROAD Mun. Utils., Box 50, 56763, 218/386-1873, Darrel Anderson, supt.; 636 met.; no gen.; pur. 20,091,600 kWh; rev. \$881,500.⁵

WASECA Water & Light Dept., 508 S. State St., 56093, 507/835-3890, Duane Brase, supt.; 3,780 met.; no gen.; pur. 50,867,729 kWh; rev. \$3,033,028. (1894)*⁷

WELLS Pub. Utils., 101 First St., S.E., 56097, 507/553-3119, Ray Wigern, supt.; 1,392 met.; no gen.; pur. 22,545,290 kWh; rev. \$1,391,855. (1894)*†⁷

WESTBROOK Mun. Light & Power, Box 296, 56183, 507/274-6712, Dennis Jutting, supt.; 841 met.; no gen.; pur. 8,246,840 kWh; rev. \$357,279. (1938)*†⁵

WHALAN Electric Dept., Box 35, 55986, 507/467-2326, Adeline Larson, town clk.; 54 met.; no gen.; pur. 321,800 kWh; rev. \$15,880.⁵

WILLMAR Mun. Utils., Box 937, 56201, 612/235-4422, C. Ted Nelson, gen. mgr.; 7,655 met.; gen. 29,350 kW coal (steam turbine), 51,968,660 kWh; pur. 107,266,730 kWh; rev. \$7,652,320. (1895)*⁷

WINDOM Mun. Util., 444 - 9th St., 56101, 507/831-1539, Dennis Purrington, elec. supt.; 2,165 met.; gen. 3,000 kW oil (combust. turbine), 6,000 kWh; pur. 39,463,800 kWh; rev. \$1,160,377. (1895)*⁶

WINTHROP, City of, 305 N. Main St., 55396, 507/647-5306, Delbert Thompson, Supt.; 740 met.; no gen.; pur. 14,354,400 kWh; rev. \$698,000. (1925)⁷

WORTHINGTON, Pub. Utils., 303 Ninth St., Box 279, 56187, 507/376-3161, Donald E. Habicht, dir. of utils.; 4,745 met.; no gen.; pur. 106,709,302 kWh; rev. \$5,148,160. (1895)*†⁷

MISSISSIPPI

(Systems designated "TVA" are distributors of Tennessee Valley Authority power and purchase all of their power from TVA.)

ABERDEEN Elec. Dept., Box 817, 39730, 601/369-4731, R. T. Byars, gen. mgr.; 3,403 met.; no gen.; pur. 140,568,000 kWh; rev. \$6,485,697. (TVA) (1939)⁷

AMORY Elec. & Water Dept., Box 266, 38821, 601/256-5633, Billie B. Wright, mgr.; 3,819 met.; no gen. (TVA) (1934)⁷

CANTON Mun. Utils., Box 114, 39046, 601/859-2921, John M. Wallace, gen. mgr.; 4,693 met.; no gen.; pur. 85,675,747 kWh; rev. \$5,135,370. (1896)*†⁷

MISSISSIPPI (continued)

CLARKSDALE Water & Light Dept., Box 940, 38614, 601/627-4761, Lewis L. Wilkins, supt.; 8,167 met.; gen. 62,550 kW, 24,500 kW gas (steam turbine), 12,550 kW gas (combust. turbine), 25,550 kW gas (comb. cycle), 23,588,700 kWh; pur. 137,365,100 kWh; rev. \$10,437,354. (1900)*⁶

COLLINS, City of, Box 400, 39428, 601/765-4491, Jimmy Don Harvey, supvr.; 1,127 met.; no gen.; pur. 21,621,600 kWh; rev. \$1,255,799.⁷

COLUMBUS, City of, Light & Water Dept., Box 949, 39703, 601/328-7192, Reynolds R. Ridgley, gen. mgr.; 11,623 met.; no gen.; pur. 392,169,700 kWh; rev. \$17,796,660. (TVA) (1939)*†⁵

DURANT Mun. Util., 106 West Mulberry, 39063, 601/653-3221, R. C. Umphers, supt. of utils.; 1,165 met.; no gen.; pur. 16,869,144 kWh; rev. \$1,105,057. (1930)*⁶

FAYETTE Light & Water Plant, 36069. (Leased to Mississippi Power & Light Co.)

GREENWOOD Utils., 101 Wright Place, Box 866, 38930, 601/453-7234, Clyde W. Farrell, mgr.; 10,014 met.; gen. 40,150 kW coal, 16,000 kW oil (steam turbine), 11,250 kW gas turbine, 58,676,770 kWh; pur. 181,259,400 kWh; rev. \$13,618,364. (1904)*⁶

HOLLY SPRINGS, City of, Util. Dept., Drawer 520, 38635, 601/252-4411, James H. Taylor, acct.; 8,660 met.; no gen.; pur. 178,227,120 kWh; rev. \$8,830,389. (TVA) (1890)*⁶

ITTA BENA, Light & Water, Box 563, 38941, 601/254-7231, James Peebles, supvr.; 1,200 met.; no gen.; rev. \$900,000.⁷

KOSCIUSKO Water & Light Plant, 204 West Jefferson St., 39090, 601/289-1141, Charles E. Burchfield, supt.; 3,179 met.; no gen.; pur. 51,258,170 kWh; rev. \$3,158,030. (1919)*⁶

LELAND, City of, 320 Broad St., Drawer 271, 38756, 601/686-4136, Mickey Fratesi, city clerk; 2,510 met.; no gen.; pur. 28,272,000 kWh; rev. \$1,827,949.*⁷

LOUISVILLE Utils., Box 71, 39339, 601/773-7147, Tommy Lee Kirkpatrick, mgr.; 3,361 met.; pur. 130,264,067 kWh; rev. \$6,284,071. (TVA) (1939)*⁶

MACON, City of, Elec. Dept., Box 146, 39341, 601/726-5251, H. L. Ledbetter, supt.; 1,295 met.; pur. 21,427,532 kWh; rev. \$1,193,316. (TVA) (1927)*⁵

NEW ALBANY Elec. Dept., Box 236, 38652, Harold G. Smith, mgr.; 7,996 met.; no gen.; pur. 179,707,812 kWh; rev. \$8,599,101. (TVA) (1934)*⁵

OKOLONA City of, Elec. Dept., Box 111, 38860, 601/447-5482, Frank Westbrook, mgr.; 4,168 met.; no gen. (TVA) (1935)⁷

OXFORD, City of, Elec. Dept., Box 827, 38655, 601/236-1310, Tom H. Landrum, supt.; 4,810 met.; no gen.; pur. 125,740,418 kWh; rev. \$6,356,177. (TVA) (1896)⁷

PHILADELPHIA Utils., Box 88, 39350, 601/656-1121, John Burt, mgr.; 3,560 met.; no gen.; sales 107,635,038 kWh; rev. \$5,983,819. (TVA) (1939)⁷

STARKVILLE Elec. Dept., Box 927, 39759, 601/323-3272, Clay R. Campbell, gen. mgr.; 7,396 met.; no gen.; pur. 265,795,372 kWh; rev. \$12,658,769. (TVA) (1939)⁷

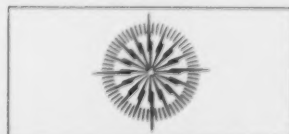
TUPELO, Water & Light Dept., Box 588, 38801, 601/842-6460, Charles F. Hutchison, mgr.; 13,075 met.; no gen.; pur. 511,328,457 kWh; rev. \$25,887,054. (TVA) (1900)⁷

WATER VALLEY, City of, Elec. Dept., Box 231, 38965, 601/473-3326, Vernon Chambers, supt.; 1,996 met.; no gen.; pur. 63,304,080 kWh; rev. \$3,240,241. (TVA) (1938)⁷

WEST POINT Elec. System, 300 Broad St., Box 1117, 39773, 601/494-1432, Aron Clark, supt.; 3,908 met.; no gen.; pur. 5,869,422 kWh; rev. \$5,963,210. (TVA) (1958)⁷

WOODVILLE Light, Water & Gas Plant, 39669. (Leased to Mississippi Power & Light Co.)

YAZOO CITY Pub. Service Comm., 125 W. Commercial, Box 660, 39194, 601/746-3741, Robert D. Priest, mgr.; 5,966 met.; gen. 31,650 kW, 12,650 kW gas (steam turbine), 14,000 gas (combust. turbine), 1,184,000 kWh; pur. 85,609,584 kWh; rev. \$5,605,978. (1903)*⁷



MISSOURI

ALBANY Light & Water, 106 E. Clay, 64402, 816/726-3510, Gene Wilson, city admin.; 1,362 met.; gen. 4,165 kW oil-fired eng.; 325,000 kWh; pur. 14,613,775 kWh; rev. \$613,530.⁵

BETHANY Mun. Water & Light, Box 344, 64424, 816/425-6286, Larry D. Sanders, supt. light & power; 1,743 met.; gen. 3,850 kW oil-fired (eng.), 4,900 kW gas-fired (eng.), 641,980 kWh; pur. 17,544,082 kWh; rev. \$1,429,000.⁷

BUTLER Mun., 101 N. Lyons, 64730, 816/679-4013, Joe Dennis, supt., 2,216 met.* (1881)

CABOOL City of, 618 Main St., 65689, 417/962-3136, Noah January, city admin.; 957 met.; no gen.; pur. 25,600,000 kWh; rev. \$1,365,131. (1948)*⁵

CALIFORNIA, City of, Bd. of Pub. Wks., Highway 50 West, 65018, 314/796-4591, Bill J. Gilbert, supt.; 1,779 met.; no gen.; pur. 25,723,182 kWh; rev. \$1,536,416. (1936)*⁶

CAMERON, City of, 205-09 N. Main, 64429, 816/632-2177, Willard Peterson, supt. of utils.; 2,248 met.; no gen.; sales 29,268,057 kWh; rev. \$2,241,397. (1924)⁷

CAMPBELL Mun. Light Dept., 202 W. Grand, 63933, 314/246-2541, Randall Baker, city clk.; 1,100 met.⁷

CARROLLTON Mun. Utils, 707 S. Main St., Box 460, 64633, 816/542-0360, L. L. Anderson, supt.; 2,481 met.; gen. 22,144 kW dual-fuel (eng.), 874,000 kWh; pur. 51,581,000 kWh; rev. \$2,368,000. (1941)*⁷

CARTHAGE, Water & Electric Plant, Box 611, 64836-0611, 417/358-5940, David R. Clark, gen. supt.; 6,207 met.; gen. 40,000 kW dual-fuel (eng.), 635,600 kWh; pur. 145,398,483 kWh; rev. \$8,033,767. (1898)*⁷

CENTRALIA, City of, 114 S. Rollins St., 65240, 314/682-2139, Lynn P. Behrns, city admin.; 1,605 met.; no gen.; pur. 18,902,400 kWh; rev. \$1,043,682. (1916)⁷

CHILLICOTHE Mun. Utils., 715 Washington St., 64601, 816/646-1664, W. Ray Blakely, gen. mgr.; 4,638 met.; gen. 92,000 kW, 12,000 kW coal (steam turbine), 80,000 kW dual-fuel (gas combust. turbine), 19,200,000 kWh; pur. 64,037,580 kWh; rev. \$4,881,753. (1911)*⁶

CLARKSVILLE Utils., Box 528, 63336, 314/242-3553, Kenneth Shuford, supt.; 356 met.; no gen. (1939)⁵

COLUMBIA, City of, Water and Light, Box N, 65205, 314/874-7325, Richard E. Malon, dir.; 23,647 met.; gen. 86,000 kW, 38,500 kW coal, 35,000 kW dual-fuel (steam turbine); 12,500 kW gas (combust. turbine), 68,294,425 kWh; pur. 547,991,000 kWh; rev. \$35,873,229. (1904)*†⁷

CRANE, City of, Dept. of Pub. Works, 120 N. Commerce, Box 17, 65633, 417/723-5990, Jack Swearingen, city supt.; 638 met.; no gen.; pur. 11,205,600 kWh; rev. \$704,659. (1963)⁷

CUBA Mun. Utils, 65453, 314/885-7958, Paul D. Dickens, supt.; 1,200 met.; no gen. ⁵

EL DORADO SPRINGS, City of, 127 W. Spring St., 64744, 417/876-2521, Ronald D. Trivitt, city mgr.; 1,938 met.; no gen.; pur. 33,977,600 kWh; rev. \$1,839,552. (1939)⁷

FARMINGTON City Light and Water, 110 W. Columbia, 63640, 314/756-2620, Ronald W. Sheppard, utils. dir.; 3,873 met.; no gen.; pur. 70,007,000 kWh; rev. \$4,280,000. (1900)*⁷

FAYETTE, City of, 117 S. Main St., 65248, 816/248-5246, Ken Roberts, supt., power plant; 1,144 met.; 10,900 kW dual-fuel (eng.), 242,480 kWh; rev. \$1,085,592. (1932)⁷

FREDERICKTOWN, City of, Light & Water, 120 W. Main, 63645, 314/783-3683, James Dismuke, admin.; 2,010 met.; no gen.; pur. 33,444,000 kWh; rev. \$1,982,469. (1948)*⁷

FULTON Bd. of Pub. Works, Box 142, 65251, 314/642-6655, Byron Dysart, supt.; 4,235 met.; gen. 32,550 kW, 18,000 kW gas turbine, 14,550 kW dual-fuel, 50.4 million kWh; pur. 82,404,000 kWh; rev. \$4,825,950. (1895)*⁵

GALLATIN Light & Water Works, 112 East Grand, 64640, 816/663-3331, C. R. Bashford, supt. utils.; 1,066 met.; gen. 6,675 kW oil (eng.), 1,412,000 kWh; pur. 2,922,000 kWh; rev. \$913,584. (1932)*⁵

GALT, City of, Mun. Utils., Box 86, 64641, 816/673-6514, Ronnie Herring, mayor; 185 met.; no gen.; sales 2,283,139 kWh; rev. \$134,000.⁵

GILMAN CITY Power & Light Plant, 64642, 816/876-5230, Larry Hyre, supt.; 200 met. ⁷

HANNIBAL Bd. of Pub. Wks., City Hall, 324 Broadway, 63401, 314/221-8050, Owen Ransdell, gen. supt.; 8,589 met.; no gen.; pur. 154,692,000 kWh; rev. \$7,964,534. (1986)*⁷

HARRISONVILLE Mun. Utils., Box 367, 64701, 816/884-3285, Damon Bartles, dir. pub. wks. (1929)⁵

HERMANN Mun. Utils., 312 Schiller St., 65041, 314/486-5953, Linford H. Thornton, supt.; 1,477 met.; no gen.; pur. 34,578,286 kWh; rev. \$1,493,633. (1953)*⁷

HIGGINSVILLE Mun. Utils., Box 110, 64037, 816/584-2106, Russell Ellis, supt.; 2,203 met.; gen. 4,940 kW, 2,530 kW oil (eng.), 2,410 kW dual-fuel (eng.), 909,300 kWh; pur. 36,945,200 kWh; rev. \$2,169,411. (1904)*[†]⁸

HOUSTON, City of, 111 W. Main St., 65483, 417/967-3653, Gerald Elmore, city admin.; 1,103 met.; no gen.; pur. 25,401,600 kWh; rev. \$1,312,292. (1951).⁵

HUNNEWELL Elec. Dept., 63443, 314/983-2439, Devan Porter, mayor; 170 met.; no gen. (1915)⁵

INDEPENDENCE, City of, Power & Light, 21500 E. Truman Road, Box 1019, 64056, 816/796-4400, P. F. Banks, elec. util. dir.; 45,102 met.; gen. 161,000 kW coal (steam turbine), 75,000 kW oil (combust. turbine), 105,000 kW gas (combust. turbine), 578,273,900 kWh; pur. 278,847,000 kWh. (1901)*⁷

JACKSON Power & Light, 225 S. High St., 63755, 314/243-3568, Carl L. Talley, utils. supt.; 4,000 met.; 1,700 kW oil-fired eng., 21,000 kW dual-fuel (eng.), 4,053,909 kWh; pur. 69,100,800 kWh; rev. \$3,550,000. (1905)*⁵

KAHOKA, City of, 275 N. Washington, 63445, 816/727-2512, Gary L. Noble, actg. supt.; 1,107 met.; 4,434 kW, 784 kW oil (eng.), 3,650 kW dual-fuel (eng.), 2,428,800 kWh; pur. 11,784,000 kWh; rev. \$820,000.⁷

KENNETT Bd. of Pub. Wks., Box 40, 63857, 314/888-2835, Larry V. Jones, supt. of utils.; 4,900 met.; gen. 3,056 kW oil (eng.), 28,850 kW dual-fuel (eng.), 1,001,100 kWh; pur. 108,473,000 kWh; rev. \$3,813,773. (1942)*⁷

KIRKWOOD Elec. Dept., 212 S. Taylor Ave., 63122, 314/822-5847, Bob R. Carter, dir.; 9,985 met.; no gen.; pur. 161,928,000 kWh; rev. \$10,116,000. (1900)⁷

LAMAR Light and Water Co., 1104 Broadway, 64759, 417/682-5554, J. A. Roberts, city admin.; 2,169

met.; no gen.; pur. 50,125,000 kWh; rev. \$1,480,693. (1900)*⁷

LA PLATA Mun. Power and Light, 101 S. Gex, 63549, 816/332-7212, Stephen Love, supt.; 795 met. (1938)⁵

LEBANON, City of, 400 S. Madison, Box 111, 65536, 417/532-2156, Bill Lawson, supt.; 4,238 met.; no gen.⁷

LIBERAL Mun. Light & Water, Box 67, 64762, 417/843-6025, Neil M. Mooney, supt.; 350 met.; no gen.; pur. 4,381,600 kWh; rev. \$272,966. (1935)⁵

LOCKWOOD, City of, 107 E. 8th, 65682, 417/232-4221, Hubert Little, city supt.; 556 met.; no gen.⁷

MACON Mun. Util., 121-123 W. Bourke St., Box 569, 63552, 816/385-3173, Paul E. Jensen, gen. supt.; 2,817 met.; gen. 1,050 kW oil (eng.), 11,700 kW dual-fuel (eng.); 824,100 kWh; pur. 69,458,875 kWh; rev. \$3,299,704. (1890)*[†]⁷

MALDEN, City of, Bd. of Pub. Wks., 111 E. Laclede, 63863-2296, 314/276-2238, Joe Russell, gen. mgr.; 2,596 met.; 13,800 kW dual-fuel (eng.), 1,797,527 kWh; pur. 55,201,628 kWh; rev. \$2,904,324. (1896)*⁷

MANSFIELD City of, 65704, 417/924-3719, Kenneth Cowell, city supvr.; 619 met.; no gen. (1963)⁵

MARCELINE Mun. Utils., 116 N. Kansas Ave., 64658, 816/376-3528, Lanny Holt, supt.; 1,505 met.; no gen.; pur. 24,235,200 kWh; rev. \$1,472,514.⁵

MARSHALL Mun. Utils., 74 E. Arrow St., 65340, 816/886-6966, Mike Herron, supt.; 5,634 met.; gen. 40,800 kW, 22,000 kW coal (steam turbine), 4,000 kW gas (combust. turbine), 14,800 oil (combust. turbine); 84,448,925 kWh; pur. 52,479,840 kWh; rev. \$8,617,904. (1920)*⁵

MEMPHIS, City of, 135 S. Main, 63555, 816/465-2003, Paul C. Luscombe, supt.; 1,335 met.; gen. 6,476 kW oil (eng.), 303,200 kWh; pur. 15,833,840 kWh; rev. \$1,005,334. (1919)*⁷

MILAN City of, 201 N. Market, Box 247, 63556, 816/265-4411, Edward Sayre, supt.; 965 met.⁵

MINDENMINES Mun. Light Dept., Box 115, 64769, 417/842-3216, Freddie Lee, supt.; 175 met.; no gen.; pur. 1,304,900 kWh; rev. \$77,798. (1922)⁵

MONETT City of, 217 5th St., 65708, 417/235-3300, Harlan C. Barekman, supt. of utils.; 3,500 met.; no gen.;

pur. 108,187,200 kWh; rev. \$5,192,861. (1893)*⁷

MONROE CITY, City of, 300 N. Main, 63456, 314/735-4585, Harold V. Little, elec. supt.; 1,275 met.; 8,880 kW dual-fuel, 2,110,550 kWh; pur. 27,746,400 kWh; rev. \$1,325,031. (1902)⁷

MOUNT VERNON City of, 319 E. Dallas, 65712, 417/466-2122, Jack Swearingen, gen. supt.; 1,678 met.; no gen.; pur. 32,844,000 kWh; rev. \$1,301,705. (1938)⁷

NEW MADRID, Mun. Light & Power, Box 96, 63869, 314/748-2458, Don Lloyd, city admin.; 1,535 met.; no gen.; pur. 30,531,286 kWh; rev. \$954,155. (1938)*⁷

NIXA City of, Box 395, 65714, 417/725-3785, Paul Frederick, mayor, 1,214 met.; no gen.; pur. 18,378,000 kWh; rev. \$541,491. (1967)⁵

ODESSA City of, Box 128, 64076, 816/633-4232, Lee Barkey, dir.; 1,466 met.; gen. 8,195 kW, 985 kW oil (eng.), 7,210 kW dual-fuel (eng.), 3,339,900 kWh; pur. 25,435,200 kWh; rev. \$1,761,708. (1939)⁷

OSCEOLA Mun. Utils., Box 321, 64776, 417/646-8421, J.A. Hartley, chmn.; 434 met.; no gen.; pur. 4,990,000 kWh; rev. \$270,000. (1971)⁵

OWENSVILLE City of, Mun. Utils., 109 N. 2nd, 65066, 314/437-2312, Roy Bizzle, supt.; 1,500 met.; gen. 2,110 kW diesel; rev. \$94,000. (1938)⁵

PALMYRA Bd. of Pub. Works, 301 S. Main, 63461, 314/769-2224, William D. Huffman, gen. supt.; 1,825 met.; gen. 1,000 kW oil-fired eng.; 9,390 kW dual-fuel eng.; 4,434,800 kWh; pur. 16,266,800 kWh; rev. \$1,142,496. (1912)*⁵

PARIS City of, 124 W. Caldwell St., 65275-1397, 816/327-4334, Richard Stone, elec. supt.; 857 met.; no gen.; pur. 11,508,400 kWh; rev. \$726,647.⁵

PATTONSBURG, Mun. Light Plant, Box 206, 64670, 816/367-4412, Bill Fleming, supt.; 279 met.; no gen.; pur. 2,761,200 kWh; rev. \$212,900. (1934)⁷

PERRY, Pub. Utils., 127 E. Main, Box 280, 63462, 314/565-3131, Charles T. Forbis, supt.; 421 met.; no gen.; pur. 4,970,940 kWh; rev. \$284,045.⁷

PLEASANT HILL Utils., 203 Paul St., 64080, 816/987-3153, Jerry Barbarick, supt.; 1,740 met.; no gen.;

pur. 18,122,400 kWh; rev. \$1,194,900. (1939)*⁵

POPLAR BLUFF City Light & Water-Sewer Depts., 301 S. Main St., 63901, 314/785-5749, James D. Pierce, mgr.; 8,226 met.; gen. 14,000 kW dual-fuel (eng.), 472,540 kWh; pur. 119,248,400 kWh; rev. \$7,684,071. (1917)*⁷

RICH HILL, City of, Mun. Elec. Plant, Seventh and Walnut Sts., 64779, 417/395-4211, Joy DeTienne, elec. supt.; 850 met.; no gen.⁶

RICHLAND Mun. Utils., Box 798, 65556, 314/765-3532, Robert Starmer, supt., 1,000 met.; no gen. (1946)⁵

ROCK PORT Bd. of Pub. Wks., 102 W. Clay St., 64482, 816/744-2676, Jim Hughes, supt.; 1,000 met.; gen. 500 kW oil-fired, 4,750 kW dual-fuel (eng.), 495,800 kWh; pur. 12,016,500 kWh; rev. \$786,786. (1932)⁷

ROLLA Mun. Utils., 102 W 9th St., Box 767, 65401-0767, 314/364-1572, James W. Banse, gen. mgr.; 6,239 met.; no gen.; pur. 180,072,000 kWh; rev. \$9,287,915. (1945)⁷

ST. JAMES Mun. Utils., 200 N. Bourbeuse, 65559, 314/265-7011, Kenneth Young, supt.; 1,715 met.; no gen.; pur. 28,481,712 kWh; rev. \$1,610,330.⁷

ST. ROBERT City of, Elec. Utils., Drawer H, 65583, 314/336-3911, Jack Fincher, util. supt.; 1,200 met.; no gen.; pur. 22,119,509 kWh; rev. \$1,107,851. (1963)⁵

SALEM, City of, 3rd & Washington Sts., 65560, 314/729-4117, Ray Lunsford, gen. supt.; 2,581 met.; no gen.; pur. 36,151,200 kWh; rev. \$2,036,031. (1934)⁵

SALISBURY Mun. Utils., 128 W. 2nd St., 65281, 816/388-5114, David Millar, supt.; 1,500 met.; gen. 2,000 kW oil (eng.), 168,000 kWh; pur. 14,802,000 kWh; rev. \$880,098.⁵

SHELBINA, City of, 127 W. Chestnut, 63468, 314/588-4104, Dennie Fowler, supt.; 1,276 met.; gen. 3,000 kW dual-fuel (eng.), 22,000 kWh; pur. 20,032,200 kWh; rev. \$1,132,000.⁷

SIKESTON Bd. of Mun. Utils., Box 370, 63801, 314/471-3328, E. R. Inman, util. dir.; 8,182 met.; gen. 235,000 kW coal (steam turbine), 908,672,000 kWh; pur. 145,018,273 kWh; rev. \$53,854,309. (1931)*⁷

SLATER City of, 109 N. Main St., 65349, 816/529-2271, Kevin Kenzenkovic, city mgr.; 1,100 met.;

MISSOURI (continued)

no gen.; pur. 11,427,758 kWh; rev. \$748,526.⁵

SPRINGFIELD City Utils., 301 E. Centrai, 65802, 417/831-8311, Robert E. Roundtree, gen. mgr.; 72,755 met.; gen. 550,600 kW, 447,500 kW dual-fuel (steam turbine), 103,000 kW dual-fuel (combust. turbine), 1,340,500,000 kWh; pur. 651,511,000 kWh; rev. \$78,095,622. (1945)*†⁷

STANBERRY, City of, First & Locust St., 64489, 816/783-2725, Leo Ginther, supt. of utils.; 717 met.; gen. 5,108 kW, 950 kW oil (eng.), 4,158 kW dual-fuel (eng.), 21,000 kWh; pur. 8,193,000 kWh; rev. \$487,000. (1937)⁸

STEELVILLE, City of, Box M, 65565, 314/775-2815, James A. Taylor, city supt.; 815 met.; no gen.⁷

SULLIVAN Mun. Util., 305 N. Park St., 63080, 314/468-4612, Joseph Thurmond, light comm.; 2,600 met.; no gen.; pur. 61,000,000 kWh. (1942)⁹

THAYER City of, Second and Market St., 65791, 417/264-3921, Ira Goans, supt.; 863 met.; no gen.⁸

TRENTON Mun. Utils., 115 E. 10th St., 64683, 816/359-2281, Gary Whorton, supt.; 3,189 met.; gen. 18,999 kW, 2,375 kW dual-fuel (eng.), 16,624 kW oil (eng.) 2,008,400 kWh; pur. 60,542,000 kWh; rev. \$3,437,767. (1937)*†⁷

UNIONVILLE Light & Power, 1611 Grant St., 63565, 816/947-2168, Dennie Sheehan, supt.; 1,360 met.; gen. 3,940 kW oil-fired (eng.), 2,910 kW gas-fired (eng.), 343,000 kWh, pur. 13,697,000 kWh; rev. \$805,000. (1921)⁸

UNIVERSITY OF MISSOURI—Columbia Power Plant, General Services Bldg., 65211, 314/882-2661, Alan R. Warden, dir., campus facilities; 300 met.; gen. 29,000 kW, 28,000 kW coal (steam), 500 kW oil (steam), 750 kW gas (combust. turbine), 101,122,000 kWh; pur. 30,627,000 kWh; rev. \$7,155,000. (1923)⁸

WANDALIA Bd. of Pub. Wks., 202 E. Park St., 63382, 314/594-3302, Jim Millard, acting supt.; 1,520 met.; gen. 9,152 kW oil (eng.), 1,556,920 kWh; pur. 13,753,000 kWh; rev. \$893,789. (1938)*⁸

WAYNESVILLE Mun. Elec. Util., 201½ North St., 65583, 314/774-6171, Tom Tinsley, supt.; 1,367 met.; no gen.; pur. 20,872,800 kWh; rev. \$1,134,000. (1963)⁸

WEST PLAINS City Utils., Box 710, 65775, 417/256-7176, Jim David-

son, power coord.; 4,510 met.; no gen.; pur. 28,200 kWh; rev. \$4,778,135. (1908)*†⁷

MONTANA

FORT PECK, Town of, Box 208, 59223, 406/526-3411, Ron Wallen, project mgr.; 100 met.; no gen.; pur. 2.4 million kWh; rev. \$22,000. (Title to utility passed in 1986 to town from U.S. Corps of Engineers which operates and maintains the system.)⁷

MONTANA BD. OF NATURAL RESOURCES, 1520 E. 6th Ave., Helena, 59620, 406/444-6699. (On June 5, 1987, the board authorized the first state-operated hydro project—development of a 10-MW facility at Toston Dam on the Missouri River southeast of Helena.)⁷

TROY, City of, Drawer S, 59935, 406/295-4151, Roger Kensler, mayor. (On Nov. 3, 1987, voters approved a self-government charter enabling the city to acquire Montana Light & Power Co., a subsidiary of Champion International Corp.)⁷

NEBRASKA

ALLIANCE Mun. Elec. System, 320 Larmie Ave., Box D, 69301, 308/762-5400, Wolfgang Bauer, city mgr.; 4,134 met.; gen. 7,500 kW dual-fuel (steam-standby); pur. 101,224,260 kWh; rev. \$4,791,869. (1916)*†⁸

ANSLEY, Village of, Mun. Light Dept., Box 39, 68814, 308/935-2181, Richard Amsberry, supt.; 300 met.; gen. 1,100 kW dual-fuel eng. (standby) (1914)⁸

ARAPAHOE Light & Water, 503 8th St., Box 235, 68922, 308/962-7445; Wesley F. Smith, util. supt.; 613 met.; no gen.; pur. 7,526,604 kWh; rev. \$524,187. (1921)⁸

ARNOLD Light & Water, Box 35, 69120, 308/848-2228, Rex L. McKain, electrician; 700 met.; no gen.; pur. 6,735,647 kWh; rev. \$239,998. (1935)*†⁸

AUBURN, Bd. of Pub. Works, 1600 O St., Box 288, 68305, 402/274-4981, Lambert K. Blecha, gen. mgr.; 2,635 met.; gen. 11,300 kW, 700 kW oil (eng.), 10,600 kW gas (eng.), 451,460 kWh; pur. 45,316,442 kWh; rev. \$2,070,655. (1939)*†⁷

BARTLEY, Village of, 222 Lemon St., 69020, 308/692-3213, Melvin Meguire, util. supt.; 200 met.; no gen.; pur. 1,771,500 kWh; rev. \$136,570. (1925)⁸

BATTLE CREEK Mun. Light & Power Dept., 101 E. Main St., Box 280, 68715, 402/675-2165, Martin Voiquardson, utils. supt.; 600 met.; no gen.; pur. 9,038,404 kWh; rev. \$482,457. (1948)⁸

BAYARD City Light & Water Dept., Box 160, 69334, 308/586-1121, L. G. Sanchez, supt.; 600 met.; no gen.; pur. 11,760,000 kWh; rev. \$332,136.†⁸

BEATRICE, Bd. of Pub. Works, 205 N. 4th St., 68310, 402/223-5211, James Bauer, gen. mgr.; 6,544 met.; no gen.; pur. 118,018,983 kWh; rev. \$4,953,607. (1947)⁷

BEAVER CITY, Light Plant, 68936, 308/268-2125, Farrel Bates, supt.; mayor; 475 met.; gen. 2,060 kW, 300 kW oil (eng.), 1,760 kW dual-fuel (eng.), 13,540 kWh; pur. 4,611,549 kWh; rev. \$278,481. (1912)*†⁸

BENKELMAN, City of, 126 7th Ave. East, 69021, 308/423-2540, Wilmer Seybold, city supt.; 679 met.; no gen.; pur. 8,745,556 kWh; rev. \$536,032.⁸

BLUE HILL Elec. Dept., Box 277, 68930, 402/756-3771, Gary Stertz, elec. supt.; 414 met.; gen. 1,200 kW oil-fired (eng.); rev. \$203,994. (1910)*†⁸

BRADSHAW, Village of, Box 41, 68319, 402/736-4634, Jack Bumgardner, util. supt.; 185 met.; no gen.; pur. 2,267,480, rev. \$143,000.⁷

BRAINARD, Village of, 68626, 402/545-2701, Ray Stolze, supt.; 260 met.; no gen.⁷

BRIDGEPORT Utils., Box 280, 69336, 308/262-1623, Charles E. Brandt Jr., supt.; 1,034 met.; no gen.; pur. 11.6 million kWh. (1950s)⁷

BROKEN BOW Mun. Utils., 314 S. 10th Ave., Box 567, 68822, 308/872-6884, Laverne Martens, utils. supt.; 2,355 met.; gen. 1,300 kW oil-fired eng., 7,420 kW dual-fuel (eng.), 378,900 kWh; pur. 38,785,420 kWh; rev. \$1,579,205. (1915)*†⁷

BURT COUNTY PUBLIC POWER DISTRICT, Box 209, Tekamah, 68061, Raymond Carlson, gen. mgr.; 3,788 met.; no gen.; pur. 84,504,406 kWh; rev. \$4,532,332. (1935)⁷

BURWELL, City of, Box 604, 68823, 308/346-4898, David E. Cox, foreman; 773 met.; gen. 4,500 kW

dual-fuel (eng.); pur. 9,308,848 kWh; rev. \$570,381. (1918)*†⁸

BUTLER COUNTY RURAL PUBLIC POWER DISTRICT, 1331 Fourth St., David City, 68632, 402/367-3081, Richard S. Polak, mgr.; 3,858 met.; no gen.; pur. 60,973,776 kWh; rev. \$3,463,843. (1937)⁷

CALLAWAY, Village of, Box 157, 68825, 308/836-2262, Charles M. Myers, bd. of trustees chmn.; 325 met.; gen. 900 kW oil (gas combust. turbine-standby), 2,000 kWh; pur. 5,279,015 kWh; rev. \$165,472. (1912)*†⁷

CAMBRIDGE Mun. Light & Water, 321 Nelson, 69022, 308/697-3713, Ken Fichtner, supt.; 618 met.; gen. 3,015 kW oil (eng.); pur. 8,087,989 kWh; rev. \$421,000. (1909)⁷

CAMPBELL Mun. Elec. Dept., 68932, 402/756-8111, Greg L'Heureux, supt.; 250 met.; gen. 1,300 kW oil-eng. (1910)⁸

CEDAR-KNOX PUBLIC POWER DISTRICT, 109 W. State St., Hartington, 68739, 402/254-6291, Jerome B. Litz, gen. mgr.; 4,221 met.; no gen.; pur. 96,265,673 kWh; rev. \$4,516,482. (1937)⁸

CENTRAL CITY, City of, 1609 16th Ave., 68826, 308/946-3806 or 2771, Jack Merrill, supt.; 1,655 met.; no gen.; pur. 23,041,572 kWh; rev. \$2,132,073. (1909)⁸

CENTRAL NEBRASKA PUBLIC POWER & IRRIGATION DISTRICT, Box 356, Holdrege, 68949, 308/995-8601, Frank J. Dragoun, gen. mgr.; gen. 212,800 kW, 108,800 kW dual-fuel (steam turbine), 104,000 kW hydro, 623,909,306 kWh; rev. \$8,378,783. (Sells power to Nebraska Public Power District.) (1933)*†⁷

CHAPPELL, City of, 757 Second St., Box 487, 69129, 308/874-2401, Gordon Adkins, supt.; 679 met.; gen. 1,425 kW oil (eng.-standby); 11,920 kWh; pur. 9,556,750 kWh; rev. \$419,000. (1911)*†⁷

CHESTER, Village of, Thayer Ave., Box 335, 68327, 402/324-5755, Raymond Wit, supt.; 249 met.; no gen.; pur. 2,796,259 kWh; rev. \$12,567. (1920)⁷

CHIMNEY ROCK PUBLIC POWER DISTRICT, 805 W. 8th, Box 608, Bayard, 69334, 308/586-1824, Jim Reiber, mgr.; 2,094 met.; no gen.; pur. 35,696,029 kWh; rev. \$2,384,695. (1936)⁷

CLARKSON, City of, 126 W. 2nd St., Box 18, 68629, 402/892-3100, Don Sucha, elec. comm.; 370 met.; no gen.; pur. 6,900,000 kWh; rev. \$328,100. (1925)⁷

CORNHUSKER PUBLIC POWER

DISTRICT, Northwest Highway 81, Box 9, Columbus, 68601, 402/564-2821, Norman L. Hoge, gen. mgr.; 7,138 met.; no gen.; pur. 165,187,021 kWh; rev. \$8,829,429. (1942)⁷

COZAD Bd. of Pub. Wks., 211 W. 8th St., Box 65, 69130-0065, 308/784-3939, Lloyd Keller, light comm.; 1,926 met.; no gen.; pur. 50,007,364 kWh; rev. \$2,230,799. (1939)⁷

CRETE, City of, Elec. Dept., City Hall, 243 E. 13th St., 68333, 402/826-4311, George G. Beyer, util. mgr.; 2,207 met.; gen. 15,277 kW, 420 kW oil (eng.), 14,857 kW dual-fuel (eng.), 1,067,800 kWh; pur. 82,386,266 kWh; rev. \$3,114,989. (1887)*†⁷

CUMING COUNTY PUBLIC POWER

DISTRICT, 500 S. Main St., West Point, 68788, 402/372-2463, Cecil Woodka, gen. mgr.; 2,668 met.; no gen.; pur. 77,881,345 kWh; rev. \$4,320,739. (1935)⁷

CURTIS Light & Water, 308 Center Ave., Box 6, 69025, 308/367-4122, Gordon Petersen, supt.; 761 met.; no gen.; pur. 10,206,461 kWh; rev. \$588,786. (1913)*†⁵

CUSTER PUBLIC POWER DISTRICT

625 E. South "E" St., Box 16; Broken Bow, 68822, 308/872-2451, Allan B. Cooper Jr., gen. mgr.; 8,097 met.; no gen.; pur. 111,659,199 kWh; rev. \$6,598,925. (1944)⁶

DAKOTA CITY, City of, Box 482, 68731, 402/987-3331, Carolyn Burns, city admin.; 530 met.; no gen.; pur. 10,438,716 kWh; rev. \$520,799. (1910)⁵

DAVENPORT, Village of, Box 119, 68335, 402/364-2292, Pete Meslosh, util. supt.; 250 met.; no gen.; pur. 3,630,392 kWh; rev. \$192,000.⁷

DAVID CITY Light Dept., 402 5th St., 68632, 402/367-3135, Gene Grubaugh, supt.; John Dowd, city admin.; 1,333 met.; gen. 5,750 kW dual-fuel (eng.), (standby), 119,700 kWh; pur. 23,022,000 kWh; rev. \$1,210,248. (1913)*†⁵

DAWSON COUNTY PUBLIC POWER

DISTRICT, 300 S. Washington, Lexington, 68850, 308/324-2386, Philip E. Darby Jr., mgr.; 14,934 met.; no gen.; pur. 249,283,508 kWh; rev. \$13,263,392. (1937)⁷

DECATUR, Village of, Box 156, 68020, 402/349-5360, Larry Kellogg, util. supt.; 425 met.; no gen.; pur. 4,305,595 kWh; rev. \$264,812.⁷

DESHLER, City of, 139 Bryson, Box 189, 68340, 402/365-4260, Roger Dondlinger, supt. of utils.; (leased to

Nebraska Public Power District); 495 met.; gen. 1,050 kW oil-fired (eng.), 27,374 kWh; pur. 7,442,257 kWh; rev. \$375,000. (1931)⁷

DE WITT Mun. Light & Power Plant, Box 208, 68341, 402/683-5025, Charles McDougall, util. supt.; 320 met.; no gen.; pur. 13 million kWh; rev. \$613,000.⁵

DORCHESTER, Village of, 701 Washington Ave., Box 287, 68343, 402/946-3201, Edward Dvorak, util. suvr.; 260 met.; no gen.⁷

DOUGLAS, Village of, 68344, 402/799-2330, Ken Gee, supt.; 200 met.; no gen. (1926)⁷

EDGAR, Light & Water Dept., Box 485, 68935, 402/224-5145, Nelson Hamblin, util. supt.; 375 met.; no gen.; pur. 5,047,891 kWh; rev. \$299,574.⁵

ELK CREEK Mun. Utils., Box 125, 68348, 402/877-2595, Philip R. Hall, utils. supt.; 100 met.; no gen.; rev. \$65,180.⁷

ELKHORN PUBLIC POWER DISTRICT, Box 310, Battle Creek, 68715, 402/675-2185, Milton Smith, gen. mgr.; 6,249 met.; no gen.; pur. 116,411,740 kWh; rev. \$6,256,940. (1939)⁷

EMERSON Mun. Utils., Box 336, 68733, 402/695-2554, David Gradert, elec. supt.; 409 met.; 1,732 kW; 295,400 kWh; pur. 4,372,200 kWh; rev. \$307,475. (1912)⁵

ENDICOTT Elec. Dept., 68350, 402/729-3404, Clyde Kellie, clerk; 80 met.; no gen.⁷

FAIRBURY Light & Water, 612 D St., 68352, 402/729-3030, Edward R. Brandt, supt.; 3,841 met.; gen. 19,000 kW gas (steam turbine-standby); pur. 58,200,000 kWh; rev. \$2,682,684. (1910)*†⁷

FAIRMONT Mun. Utils., Box 156, 68354, 402/268-3341, Bob Bonerden, supt.; rev. \$278,365.⁷

FALLS CITY, City of, Utils., 1820 Towle St., 68355, 402/245-2741, Martin R. Gist, city admin.; 2,927 met.; gen. 22,282 kW, 1,657 kW oil (eng.), 20,625 kW dual-fuel (eng.), 1,423,400 kWh; pur. 42,411,717 kWh; rev. \$2,194,103. (1890)*†⁵

FILLEY Utils., Box 85, 68357, 402/662-3555, Harold Huls and David Norten, light commissioners; 100 met.; no gen.; pur. 950,000 kWh; rev. \$55,000.⁵

FRANKLIN, City of, Light & Water Dept., 619 - 15th Ave., Box 232, 68939, 308/425-6263, Jerry Remaly, supt.; 861 met.; gen. 4,080

kWh; 59,500 kWh; pur. 75,308 kWh; rev. 512,751. (approx. 1910)⁵

FRANKLIN COUNTY RURAL PUBLIC

POWER DISTRICT, 101 16th Ave., Box 246, Franklin, 68939, 308/425-6217, Arnold Esplund, mgr.; 1,784 met.; no gen.; pur. 23,298,480 kWh; rev. \$1,409,201. (1946)⁶

FREMONT, Dept. of Utils., 725 N. Park Ave., 68025, 402/721-2490, Jon K. McCafferty, gen. mgr.; 12,066 met.; gen. 130,000 kW dual-fuel (steam turbine), 260,294,000 kWh; pur. 46,446,800 kWh; rev. \$14,452,382. (1895)*†⁷

FRIEND, City of, 235 Maple St., 68359, 402/947-2711, Norm Freeman, supt. of utils.; 620 met.; no gen.; pur. 8,178,768 kWh; rev. \$467,059. (1905)⁵

GERING, City of, 1450 10th St., 69341, 308/436-5096, William Boyle, city admin.; 3,364 met.; no gen.; pur. 67,464,310 kWh; rev. \$2,284,093. (1934)*†⁵

GILTNER Mun. Util., Box 254, 68841, 402/849-2845, Perry Hosier, util. supt.; 125 met.; no gen.⁷

GOTHENBURG Public Works Div., 490 9th St., 69138, 308/537-3668, Jon Morrison, city admin.; 1,720 met.; no gen.; pur. 34,382,000 kWh; rev. \$1,528,143. (1956)⁵

GRAND ISLAND Mun. Light System, Box 1968, 68802-1968, 308/381-5487, Gary R. Mader, dir., util. oper.; 20,479 met.; gen. 207,300 kW, 100,000 kW coal (steam turbine), 92,500 kW gas (steam turbine-standby), 14,800 kW gas (combust. turbine-standby); 305,967,383 kWh; pur. 91,966,100 kWh; rev. \$21,065,323. (1905)*†⁷

GRANT, City of, Box 614, 69140, 308/352-2100, John Mathes, util. supt.; 825 met.; no gen.; pur. 14,000,000 kWh; rev. \$718,350. (operated by Midwest Electric Membership Corp.)⁵

GREENWOOD, Village of, Box 86, 68366, 402/789-2300, Edwin D. Koehler, maint.; 242 met.; no gen.; pur. 3,856,950 kWh; rev. \$207,180. (1932)⁵

HAMPTON, Village of, Box 277, 68843, 402/725-3186, Jim Litchfield, util. supt.; 210 met.; no gen.; pur. 2,914,241 kWh; rev. \$168,000. (1905)⁵

HASTINGS Utils., Box 289, 68901, 402/463-1371, L. V. Blocker, mgr. of utils.; 11,297 met.; gen. 137,000 kW, 76,500 kW coal (steam turbine), 38,500 kW dual-fuel (steam turbine), 22,000 kW oil (combust. turbine);

146,015,568 kWh; pur. 59,165,896 kWh; rev. 11,760,703. (1901)*†⁷

HEBRON Elec. Dept., 216 Lincoln Ave., 68370, 402/768-6322; LaVon Boman, mgr., elec. dept.; 900 met.; no gen.; pur. 13,399,364 kWh; rev. \$827,170.⁵

HEMINGFORD, Mun. Utils., Box 395, 69348, 308/487-3465, Jess Gonzales, supt.; 683 met.; no gen.; pur. 6,148,443 kWh; rev. \$357,125. (1956)⁵

HICKMAN, Village of, Box 127, 68372, 402/792-2212, Leon Ten Hulzen, util. supt.; 326 met.; no gen.; pur. 6,250,000 kWh; rev. \$305,000.⁶

HILDRETH Utils., Box 217, 68947, 308/938-2471, Dale Casper, supt.; 215 met.; no gen.; rev. \$165,013.⁷

HOLBROOK Mun. Light Plant, Box 148, 68948, 308/493-5653, Don Vonderfecht, supt.; 185 met.; no gen.; pur. 1,517,100 kWh; rev. \$82,882.⁷

HOLDREGE, City of, 502 East Ave., 68949, 308/995-8681, Marvin Paulsen, utils. supt.; 3,141 met.; no gen.; pur. 87,497,183 kWh; rev. \$3,582,208. (1919)⁶

HOWARD GREELEY RURAL PUBLIC POWER DISTRICT, 422 Howard Ave., Box 105, St. Paul, 68873, 308/754-4457, Dan R. McIntyre, mgr.; 2,601 met.; no gen.; pur. 55,772,662 kWh; rev. \$2,758,898. (1938)⁶

HUBBELL, Village of, Box 42, 68375, 402/324-4141, Gerald Van Winkle, comm.; 81 met.; no gen.; pur. 492,200 kWh; rev. \$26,798.⁶

IMPERIAL Elec. System., Box 637, 69033, 308/882-5151, Marvin S. Athey, supt. of utils.; no gen. (600 kW oil-fired eng.-standby); pur. 22,132,600 kWh; rev. \$944,836.⁶

INDIANOLA, City of, Drawer F, 69034, 308/364-2413, Warren Young, supt.⁵

KBR RURAL PUBLIC POWER DISTRICT, Box 187, Ainsworth, 69210, 402/387-1120, Rich Walters, gen. mgr.; 3,055 met.; no gen.; pur. 41,079,087 kWh; rev. \$2,486,023. (1950)⁷

KIMBALL Mun. Utils., 223 S. Chestnut, 69145, 308/235-3639, Robert E. Arjai, city admin.; 1,732 met.; gen. 9,300 kW eng., 21,210,000 kWh; rev. \$1,320,535. (1912)*†⁵

LAUREL Mun. Elec. Light & Power, 101 W. 2nd St., 68745, 402/256-3112, L. J. Mallatt, city admin.; 616 met.; gen. 3,885 kW dual-fuel eng.; 117,000 kWh; pur. 7,326,810; rev. \$352,737. (1916)⁵

LEIGH, Village of, Box 277, 68643, 402/487-2749, Randy Huisman, util. supt.; 298 met.; no gen.; pur. 4,829,200 kWh; rev. \$368,000.⁵

LEXINGTON, City of, Box 70, 68850, 308/324-2343, Bill Podraza, city mgr.; 3,370 met.; no gen.; pur. 73,614,985 kWh; rev. \$3,418,846. (1945)⁵

LINCOLN Elec. System, 1200 "N" St., Suite 300, Box 80869, 68501, 402/475-4211, Walter A. Canney, adm.; 85,106 met.; gen. 275,500 kW, 183,000 kW coal (steam turbine), 92,500 kW gas (combust. turbine), 1,368,333,000 kWh; pur. 1,019,948,639 kWh; rev. \$96,185,000. (1913)*†⁷

LODGEPOLE, Village of, Box 164, 69149, Lloyd R. Dykman, supt.; 217 met.; pur. 7.2 million kWh. (1915)⁷

LOUP RIVER PUBLIC POWER DISTRICT, Box 988, Columbus, 68601, 402/564-3171, Robert E. White, gen. mgr.; 15,624 met.; gen. 48,150 kW hydro, 150,516,000 kWh; pur. 601,311,815 kWh; rev. \$23,452,170. (1933)*†⁷

LOUP VALLEYS RURAL PUBLIC POWER DISTRICT, Box 166, Ord, 68862, 308/728-3633, Kenneth W. Clement, mgr.; 3,326 met.; no gen.; pur. 48,098,319 kWh; rev. \$2,813,348. (1946)⁶

LYMAN, Village of, Box 301, 69352, Martin Staab, util. supt.; 271 met.; no gen.; pur. 3,621,000 kWh; rev. \$220,302. (1922)†⁷

LYONS Mun. Utils., 100 Main St., 68038, 402/687-2130, Dean J. Zoet, supt. of utils.; 647 met.; gen. 300 kW oil-fired, 2,485 kW dual-fuel (eng.-standby); pur. 7,857,557 kWh; rev. \$387,665. (1915)⁵

MADISON, City of, Box 527, 68748, 402/454-3412, Darrell Dawson, city admin.; 926 met.; gen. 690 kW oil, 4,560 kW dual-fuel (eng.), 111,300 kWh; pur. 33,005,400 kWh; rev. \$1,500,000. (1901)⁵

MCCOOK PUBLIC POWER DISTRICT, Box 739, McCook, 69001, 308/345-2500, Douglas Mollet, mgr.; 3,660 met.; no gen.; pur. 152,483,684 kWh; rev. \$7,761,971. (1935)⁷

MINDEN Light & Water Comm., 325 N. Colorado Ave., 68959, 308/832-1820, Thomas B. Kenney, city admin.; 1,800 met.; no gen.⁵

MITCHELL, City of, Light & Water, 1444 - 12th St., 69357, 308/623-2446, Ty Abnerthy, utils. supt.; 890 met.; no gen.; pur. 17,739,984 kWh; rev. \$574,510. (1934)†⁶

MORRILL, Village of, Box 305, 69358, 308/247-2312, Robert Morton, elec. supt.; 810 met.; no gen.; pur. 13,354,011 kWh; rev. \$548,562. (est. 1900s)*†⁷

MULLEN, Village of, Box 187, 69152, 308/546-2625, Eddie Swendener, util. supt.; 400 met.; gen. 1,125 kW diesel oil-fired; pur. 4 million kWh; rev. \$497,000. (1957)†⁵

NEBRASKA CITY Utils., Box 670, 68410, 402/873-3353, William T. Brockley, gen. mgr.; 5,338 met.; gen. 30,265 kW dual-fuel (eng.); 23,141,838 kWh; pur. 78,692,939 kWh; rev. \$4,135,467. (1944)*†⁷

NEBRASKA PUBLIC POWER DISTRICT (formerly Consumers Public Power District), 1414 15th St., Box 499, Columbus, 68601, 402/564-8561, Don E. Schaufelberger, pres./chief exec. ofcr.; 107,019 met.; gen. 3,044,419 kW, 1,674,768 kW coal (steam turbine), 7,500 kW gas (steam turbine), 141,300 kW dual-fuel (steam turbine), 835,550 kW nuclear, 147,050 kW oil (combust. turbine), 26,296 kW oil (eng.), 29,597 dual-fuel (eng.), 182,358 kW hydro.; 10,006,630,416 kWh; pur. 1,417,300,652 kWh; rev. \$333,741,344. (1939)*†⁷

NELIGH Mun. Power, Box 87, 68756, 402/887-5042 or 4066, Eugene Zillig, supt.; 1,016 met.; no gen.; sales 12,435,640 kWh; rev. \$809,653.*†⁷

NELSON, City of, Light & Water Dept., 60 E. Fourth St., Box 327, 68961, 402/225-4401, Virgil Schlieff, util. supt.; 394 met.; no gen.; pur. 4,172,037 kWh; \$221,565. (1914)⁶

NORRIS PUBLIC POWER DISTRICT, 606 Irving St., Box 399, Beatrice, 68310, 402/223-4038, Glen R. Schmieding, gen. mgr.; 11,682 met.; no gen.; pur. 308,596,457 kWh; rev. \$15,219,091. (1933)⁷

NORTH CENTRAL PUBLIC POWER DISTRICT, Box 7, Creighton, 68729, 402/358-5112, Brian Newton, mgr.; 3,520 met.; no gen.; pur. 62,143,969 kWh; rev. \$3,385,466. (1945)⁷

NORTHEAST NEBRASKA RURAL PUBLIC POWER DISTRICT, 511 Main St., Emerson, 68733, 402/695-2642, Cletus J. Temple, mgr.; 2,559 met.; no gen.; pur. 58,453,827 kWh; rev. \$2,933,722. (1939)⁷

NORTH PLATTE, City of, Mun. Lt. & Power, Box 490, 69103-0490, 308/532-5320, John F. Cox, mgr.; 12,841 met.; no gen.; pur. 189,514,913 kWh; rev. \$8,873,000. (1940)*†⁷

NORTHWEST RURAL PUBLIC POWER DISTRICT, Box 249, Hay Springs, 69347, 308/638-4445, Rolland Skinner, mgr.; 2,797 met.; no gen.; pur. 51,570,237 kWh; rev. \$3,903,253. (1947)⁵

OMAHA PUBLIC POWER DISTRICT, 1623 Harney St., 68102-2247, 402/536-4000, Fred Peterson, pres. & chief exec. officer; 233,649 met.; gen. 1,892,300 kW, 1,199,500 kW coal (steam turbine), 4,600 oil (steam turbine), 476,000 kW nuclear, 212,200 kW oil (combust. turbine); 7,322,999,100 kWh; pur. 826,061,200 kWh; rev. \$307,249,075. (1946)*†⁷

ORD, Elec. and Water Plant, 200 S. 16th St., 68862, 308/728-3595, Gene Baugh, comm.; 1,498 met.; gen. 8,500 kW dual-fuel (eng.-standby); pur. 23,031,691 kWh; rev. \$1,270,197. (1916)⁶

OXFORD Mun. Light Dept., Box 385, 68967, 308/824-3511, Ronald Ludeke, supt.; 550 met.; gen. 4,165 kW; 56,000 kWh; sales 7,333,947 kWh; rev. \$749,893.†⁶

PENDER Elec. Util., 68047, 402/385-3121, Robert Fendrick, supt.; 679 met.; pur. 8,023,333. (1920)†⁷

PIERCE Utils., 114 S. Brown, 68767, 402/329-4535, Clarence H. Wattier, mgr.; 1,900 met.; no gen.; pur. 14,282,620 kWh; rev. \$749,781. (1941)⁶

PLAINVIEW Mun. Utils., Box 757, 68769, 402/582-4928, Rodney A. Storm, city mgr.; 900 met.; gen. 3,150 kW dual-fuel (eng.); rev. \$474,000. (1910)⁷

POLK, Light and Water, Box 6, 68654, 402/765-2251, Matthew L. Redman, supt.; 240 met.; no gen.; pur. 3,000,000 kWh; rev. \$170,000. (1906)⁷

POLK COUNTY RURAL PUBLIC POWER DISTRICT, Box 465, Stormsburg, 68666, 402/764-4381, Merlin Steele, gen. mgr.; 2,397 met.; no gen.; pur. 48,388,877 kWh; rev. \$2,458,085. (1936)⁷

PRAGUE Elec. Dept., 68050, 402/663-5235, Robert Koranda, light comm.; 173 met.; no gen.; pur. 2,616,000 kWh.⁵

RANDOLPH Mun. Light Plant, Box 220, 68771, 402/337-0553, Les Greiner, supt.; 640 met.; gen. 2,400 kW dual-fuel eng., 101,900 kWh; pur. 6,352,607 kWh; rev. \$337,363. (1916)⁵

RED CLOUD Mun. Light and Power, 540 N. Webster, 68970, 402/746-2214, Kenneth P.

Schwartz, supt. of utils.; 822 met. (1912)*†⁶

REYNOLDS, Village of, Box 98, 68429, 402/324-3109, Don Gregory, utils. supt.; 65 met.; pur. 519,324 kWh; rev. \$32,628.⁷

ROOSEVELT PUBLIC POWER DISTRICT, 1633 - 13th, Box 97, Mitchell, 69357, 308/623-2124, H. F. Moranville, mgr.; 2,280 met.; no gen.; pur. 44,296,273 kWh; rev. \$2,832,618. (1935)⁶

ST. PAUL, City of, 522 Howard Ave., 68873, 308/754-4483, Charles M. Schmid, city supt.; 1,098 met.; no gen.; pur. 13,587,568 kWh; rev. \$842,807.⁷

SARGENT, City of, Box 40, 68874, 308/527-4200, Larry D. Kelly, supt.; 460 met.; gen. 2,488 kW dual-fuel eng., 22,900 kWh; pur. 6,376,540 kWh; rev. \$259,951. (1916)⁵

SCHUYLER, City of, Dept. of Utils., 124 E. 11th St., 68661, 402/352-5445, Fred Ayers, utils. supt.; 2,110 met.; pur. 80,200,000 kWh; rev. \$2,736,569. (1892)*⁵

SEWARD, City of, Box 38, 68434, 402/643-3151, Don Eikmeier, city admin.; 2,500 met.; no gen.; pur. 45,905,208 kWh; \$2,164,276. (1921)⁶

SEWARD COUNTY RURAL PUBLIC POWER DISTRICT, Box 69, Seward, 68434, 402/643-2951, Joel Navis, gen. mgr.; 2,585 met.; no gen.; pur. 44,090,854 kWh; rev. \$2,587,796. (1938)⁶

SHICKLEY, Village of, Main St., 68436, 402/627-2055, Neil Gowen, util. supt.; 233 met.; no gen.; sales 2,771,529 kWh; rev. \$174,843. (1923)†⁷

SIDNEY, City of, 1115 - 13th Ave., 69162, 308/254-5300, Stanley Torvik, city mgr.; 3,006 met.; gen. 8,250 kW, 7,550 kW dual-fuel (eng.), 700 kW oil (eng.); pur. 35,252,453 kWh; rev. \$1,599,913. (1942)*†⁶

SNYDER Elec. Dept., 68664, 402/568-2306, Jack Lennemons, supt.; 203 met.; no gen.; pur. 4,800,000 kWh; rev. \$180,000. (1910)⁵

SOUTH CENTRAL PUBLIC POWER DISTRICT, Box 406, Nelson, 68961, 402/225-2351, Max A. Van Skiver, mgr.; 4,089 met.; no gen.; pur. 88,093,210 kWh; rev. \$4,396,071. (1961)⁷

SOUTH SIOUX CITY Util., 1615-1st Ave., 68776, 402/494-5800, Lance Hedquist, city admin.; 4,067 met.; no gen.; pur. 78,148,560 kWh; rev. \$4,022,916. (1896)⁶

SOUTHERN NEBRASKA RURAL PUBLIC POWER DISTRICT, Box 1687, Grand Island, 68802, 308/384-2350, Charles J. Hoke, gen. mgr.; 16,002 met.; no gen.; pur. 343,905,732 kWh; rev. \$19,838,966. (1937)⁷

SOUTHWEST PUBLIC POWER DISTRICT, 221 N. Main, Box J, Palisade, 69040, 308/285-3295, Donald H. Husted, gen. mgr.; 5,045 met.; gen. 312 kW diesel (combust. turbine); pur. 124,387,354 kWh; rev. \$6,566,724. (1954)*⁷

SPALDING Mun. Light Plant, Box 268, 68665, 308/497-2416 or 2661, Paul F. Semper, supt.; 481 met.; gen. 2,203 kW, 2,053 kW oil (eng.), 150 kW hydro, 766,710 kWh; pur. 5,353,776 kWh; rev. \$184,153. (1954)⁷

SPENCER, Village of, Mun. Lt. & Pwr., Box 15, 68777, 402/589-1130, Lyle Karnes, lt. & wtr. comm.; 360 met.; no gen.⁵

STANTON COUNTY PUBLIC POWER DISTRICT, 807 Douglas, Box 319, Stanton, 68779, 402/439-2228, William Duane Johnson, gen. mgr.; 2,489 met.; no gen.; pur. 38,650,832 kWh; rev. \$2,172,000. (1936)⁷

STRATTON Water & Light Dept., Box 116, 69043, 308/276-2184, A. R. Terrell, utils. supt.; 240 met.; no gen.; pur. 3,180,938 kWh.⁵

STROMSBURG, City of, Elec. Dept., 122 E. 3rd, Box 407, 68666, 402/764-8228, M. D. Simpson, elec. supt.; 638 met.; no gen.; pur. 8,838,520, rev. \$524,836. (1936)*⁷

STUART Mun. Water & Power, Box 177, 68780, 402/924-3977, M. A. Jauernig, supt.; 350 met.; gen. 1,373 kW, 678 kW oil-fired eng., 675 kW dual-fuel (eng.), 11,000 kWh; pur. 4,837,000 kWh; rev. \$208,417. (1922)⁷

SUPERIOR Utils., Box 160, 68978, 402/879-4711, Richard Elliott, dir. pub. wks.; 1,557 met.; no gen.; pur. 28,318,678 kWh; rev. \$1,419,537. (1941)⁶

SUTTON Light & Power Plant, Box 437, 68979, 402/773-5501, Rolly Kastens, comm.; 800 met.; no gen.⁷

SYRACUSE, 578 Mohawk, 68446, 402/269-2173, Donald L. Block, util. supt.; 858 met.; no gen.; pur. 11,762,110 kWh; rev. \$667,787. (est. 1930s)⁷

TALMAGE Elec. Dept., City Hall, Box 198, 68448, 402/264-3825, Melvin Howe, supt.; 225 met.⁵

TECUMSEH, City of, 122 S. 4th St., 68450, 402/335-3025, Terry Kage, supt.; 979 met.; gen. 4,600 kW; sales 18,115,247 kWh; rev. \$939,000 (Plant leased to Omaha Public Power District.) (1890)⁷

TRENTON Mun. Light & Power, c/o Southwest Public Power District, Palisade, 69040, 308/285-3295, D. H. Husted, gen. mgr.; 450 met.; no gen.; pur. 4,668,513 kWh; rev. \$269,635. (early 1900s)⁷

TWIN VALLEYS PUBLIC POWER DISTRICT, W. Hwy. 6-34, Box 160, Cambridge, 69022, 308/697-3315, Paul Liess, gen. mgr.; 4,434 met.; no gen.; pur. 59,063,652 kWh; rev. \$3,756,884. (1944)⁷

UNIVERSITY OF NEBRASKA, 1700 Y, Lincoln, 68588, 402/472-3131, Gary Thalken, mgr. of utils.; gen. 6,000 kW dual-fuel (steam turbine), 7,123,000 kWh; pur. 117,751,000 kWh. (1934)*⁷

VALENTINE, City of, Box 177, 69201, 402/376-2323, Norma Jean New, city mgr.; 1,971 met.; no gen.; pur. 32,930,870 kWh; rev. \$1,664,893.⁷

WAHOO, City of, 605 N. Broadway, 68066, 402/443-3222, Brian Skean, util. supt.; 1,882 met.; gen. 13,640 kW, 500 kW oil (eng.), 13,140 kW dual-fuel (eng.); 428,600 kWh; pur. 33,647,800 kWh; rev. \$1,868,038. (1908)*⁷

WAKEFIELD, City of, Light Plant, 303 Oak St., 68784, 402/287-2547, Larry Lueth, supt.; 575 met.; gen. 4,300 kW (standby); 76,400 kWh; pur. 17,221,057 kWh; rev. \$661,716. (1917)⁷

WALTHILL, Village of, Box 224, 68067, 402/846-5575, Henry L. Johnson, supt.; 362 met.; no gen.; pur. 5,498,155 kWh; rev. \$323,000.⁶

WAUNETA Mun. Utils., Box 95, 69045, 308/394-5390, Pat Madden, utils. supt.; 495 met.; no gen.; pur. 6,866,371 kWh; rev. \$318,875. (1948)⁷

WAYNE, City of, 208 S. Main, 68787, 402/375-2866, Philip A. Kloster, 2,039 met.; g.n. 14,500 kW oil-fired (eng.), 223,900 kWh; pur. 35,647,300 kWh; rev. \$1,420,000. (1897)*⁶

WAYNE COUNTY PUBLIC POWER DISTRICT, 303 Logan, Box 350, Wayne, 68787, 402/375-1360, E. A. Schroeder, mgr.; 2,624 met.; no gen.; pur. 52,973,118 kWh; rev. \$2,532,946. (1939)⁶

WEST POINT, City of, 444 S. Main, 68788, 402/372-2468, Howard Parrott, city admin.; 1,652 met.; gen. 8,565 kW dual-fuel (eng.); 19,220

kWh; pur. 27,511,692 kWh; rev. \$1,340,000. (1922)*⁷

WHEAT BELT PUBLIC POWER DISTRICT, Box 177, Sidney, 69162, 308/254-5871, Gene M. Lienemann, gen. mgr.; 4,059 met.; no gen.; pur. 128,300,936 kWh; rev. \$8,465,958. (1947)⁵

WILBER, City of, 101 W. 3rd, 68465, 402/821-3233, Nelson Behrens, city supt.; 800 met.; no gen.; pur. 11 million kWh; rev. \$406,514. (about 1900)⁷

WILCOX, Village of, Box 158, 68982, 308/478-5510, Don Ficht, supt.; 200 met.; no gen.; sales 2,800,000 kWh; rev. \$130,000.⁶

WINSIDE, Village of, Box 206, 68790, 402/286-4205, Dennis Van Houten, utils. supt.; 261 met.; no gen.; pur. 2,526,827 kWh; rev. \$108,000. (1915)⁶

WISNER, City of, 1115 Ave. E, Box 367, 68791, 402/529-3383, Roland Johnson, utils. supt.; 740 met.; gen. 1,905 kW; 18,100 kWh; pur. 12,800,040 kWh; rev. \$467,874. (1905)⁷

WOOD RIVER, City of, Box 8, 68883, 308/583-2757, Jim Smith, utils. supt.; 520 met.; no gen.; pur. 8,425,534 kWh; rev. \$517,471.⁷

WYMORE, City of, 115 W. E St., 68466, 402/645-3377, Dan Yockel, supt.; 912 met.; no gen.; pur. 9,941,100 kWh; rev. \$574,740.⁷

YORK COUNTY RURAL PUBLIC POWER DISTRICT, S. Hwy 81, Box 219, York, 68467, 402/362-3355, Hilary Neesen, gen. mgr.; 3,695 met.; no gen.; pur. 81,693,825 kWh; rev. \$4,598,859. (1938)⁷

The following Nebraska communities own their own municipal electric systems which are operated by Nebraska Public Power District under lease agreements:

ABIE, ADAMS, AINSWORTH, ALDA, ALLEN, ANOKA, ARCADIA, ASHTON, ATKINSON, ATLANTA, AURORA, AXTELL, BANCROFT, BARADA, BASSETT, BAZILE MILLS, BEAVER CROSSING, BEE, BEEHMER, BELDEN, BELLWOOD, BELVIDERE, BENEDICT, BERTRAND, BIG SPRINGS, BLADEN, BLOOMINGTON, BLUE SPRINGS, BOELUS, BRADY, BRISTOW, BROADWATER, BRULE, BRUNING, BRUNO, BRUNSWICK, BURCHARD, BUTTE,

CAIRO, CARLETON, CENTER, CHADRON, CHAPMAN, CLARKS, CLATONIA, CLAY CENTER, CLEARWATER, CLINTON, CODY, COLERIDGE, COMSTOCK, CONCORD, CORDOVA, CORTLAND, CRAIG, CRAWFORD, CREIGHTON, CROFTON, CROOKSTON, DAWSON, DAYKIN, DEWESEE, DIXON, DODGE, DONIPHAN, DUBOIS, DWIGHT, EDISON, ELBA, ELGIN, ELM CREEK, ELSIE, ELWOOD, EMMET, EUSTIS, EWING, EXETER, FAIRFIELD, FIRTH, FORDYCE, FUNK, GARLAND, GEORGE, GIBSON, GOEHNER, GORDON, GRAFTON,

GREELEY, GRESHAM, GUIDE ROCK, HALLAM, HARDY, HARTINGTON, HARVARD, HAY SPRINGS, HEARTWELL, HENDERSON, HENDLEY, HOMER, HORDVILLE, HOSKINS, HUBBARD, HUMBOLDT, HUNTLEY, INMAN, JACKSON, KEARNEY, KENESAW, KILGORE,

LAWRENCE, LEWELLEN, LONG PINE, LOOMIS, LOUP CITY, LUSHTON, LYNCH, MCCOOK, MCCOOL JUNCTION, MCGREW, MCLEAN, MADRID, MAGNET, MARQUETTE, MARTINSBURG, MASKELL, MEADOW GROVE, MELBETA, MERRIMAN, MILFORD, MILLER, MILLIGAN, MINATARE, MURRAY,

NAPONEE, NEHAWKA, NENZEL, NEWCASTLE, NEWPORT, NORA, NORFOLK, NORTH LOUP, OAKDALE, OAKLAND, OBERT, OGALLALA, OHIOWA, O'NEILL, ONG, ORCHARD, ORLEANS, OSCEOLA, OSHKOSH, OSMOND, OVERTON, PAGE, PALMER, PANNEE CITY, PHILLIPS, PICKRELL, PLATTS-MOUTH, PLEASANT DALE, PLYMOUTH, PONCA,

RAVENNA, REPUBLICAN CITY, RISING CITY, RIVERTON, ROYAL, RUSHVILLE, RUSKIN, SARONVILLE, SCOTIA, SCOTTSBLUFF, SCRIBNER, SHELBY, SHELTON, SHUBERT, SILVER CREEK, STAMFORD, STAPLEHURST, STEINAUER, STELLA, STERLING, STRANG, SUTHERLAND, SWANTON,

TABLE ROCK, TAMORA, TEKAMAH, THAYER, TILDEN, TOBIAS, UEHLING, ULYSSES, UNION, UTICA, VALPARAISO, VENANGO, VERDON, VIRGINIA, WACO, WATERBURY, WAUSA, WESTERN, WHITNEY, WINNEBAGO, WINNETON, WOLBACH, WYNOT, YORK,

The following Nebraska communities own their own municipal electric systems which are operated by Loup Power District under lease agreements:

ALBION, BELGRADE, CEDAR RAPIDS, COLUMBUS, CORNLEA, CRESTON, DUNCAN, FULLERTON, GENOA, HOWELLS, HUMPHREY, LINDSAY, MONROE, NEWMAN GROVE, PETERSBURG, PLATTE CENTER, PRIMROSE, RAEVILLE, RICHLAND, ST. BERNARD, ST. EDWARD, TARNOV,

Dannebrog's and Cushing's systems are leased to Howard Greely Rural PPD, Oak's to South Central Public Power District, Paxton's to Midwest Electric Membership Co-op in Grant, Salem's to Omaha PPD, Stanton's and Pilger's to Stanton County PPD, Stockham's to Southern Nebraska Rural PPD and Surprise to Butler County Rural PPD.

NEVADA

ALAMO POWER DISTRICT NO. 3, Box 189, Alamo, 89001, 702/725-3335, Douglas J. Miller, mgr.; 464 met.; no gen.; pur. 10,942,200 kWh; rev. \$301,453. (1942)⁷

BOULDER CITY, City of, Box 367, 89005, 702/293-9200, George

NEVADA (continued)

Forbes, city mgr.; 5,034 met.; no gen.; pur. 109,919,876 kWh; rev. \$2,908,000. (1960)*†⁷

CALIENTE Pub. Utils., Box 158, 89008, 702/726-3269, George T. Rowe, mayor; 452 met.; no gen.; pur. 11,958,600 kWh; rev. \$406,416. (1943)*⁸

COLORADO RIVER COMMISSION OF NEVADA, 1515 E. Tropicana Ave., Suite 300, Las Vegas, 89119, 702/486-7060, Jack L. Stonehocker, dir.; 14 met.; no gen.; pur. 1.3 billion kWh; rev. \$18,052,237.⁷

FALLON Mun. Elec. System, 55 W. Williams Ave., 89406, 702/423-5107, Ben T. Bartlett, city mgr.; 2,575 met.; no gen.; pur. 37,968,000 kWh; rev. \$2,760,948. (1911)*⁶

LINCOLN COUNTY POWER DIST. No. 1, SR 89063, Box 101, Pioche, 89043, 702/962-5122, William F. Lynch, mgr.; 104 met.; no gen.; pur. 67,527,323 kWh; rev. \$1,108,634. (1935)*⁵

MINERAL COUNTY POWER SYSTEM, Box 1457, Hawthorne, 89415, 702/945-2446, Martha Barlow, county clerk, (System leased to Sierra Pacific Power Co. until year 2000.)⁵

OVERTON POWER DISTRICT NO. 5, 601 N. Highway 169, Box 395, Overton, 89040, 702/397-2512, A. Kent Bloomfield, gen. mgr.; 2,480 met.; no gen.; pur. 98,243,769 kWh; rev. \$2,338,028. (1939)⁷

PIOCHE Pub. Util., Box 31, 89043, 702/962-5840, Patrick Kelly, mgr.; 325 met.; no gen.⁵

NEW HAMPSHIRE

ASHLAND, Town of, Elec. Dept., 2 Collins St., 03217, 603/968-3083, Thomas E. Marsh, supt.; 989 met.; gen. 81 kW hydro, 268,156 kWh; pur. 19,584,300 kWh; rev. \$1,246,211. (1917)⁷

LITTLETON Water & Light Dept., 30 Lafayette Ave., 03561, 603/444-2915, James R. Thyng, supt.; 3,172 met.; no gen.; pur. 41,131,067 kWh; rev. \$2,828,365. (1903)⁷

NEW HAMPTON Village Precinct, 03256, 603/744-8342, Ralph Ness, mgr., elec. dept.; 132 met.; no gen.; pur. 2,424,300 kWh; rev. \$146,000. (1914)*⁸

WOLFEBORO Mun. Elec. Dept., Box 777, 03894, 603/569-3900, Chester L. Spinney, town mgr.; 4,229 met.; gen. 2,500 kW oil (eng.); pur.

42,768,000 kWh; rev. \$2,629,835. (1897)⁷

WOODSVILLE Water & Light Dept., 3 N. Court St., 03785, 603/747-2442, Hayden Waterhouse, supt.; 1,098 met.; no gen.; pur. 13,930,450 kWh; rev. \$774,714. (1922)*⁶

NEW JERSEY

BUTLER, Borough of, One Ace Rd., 07405, 201/838-7200, Frank Bastone, bor. admin.; 9,100 met.; no gen.; pur. 95,211,000 kWh; rev. \$9,781,658. (1942)*⁵

LAWALLETTE Elec. Dept., Washington Ave., 08735, 201/793-7477, Joan Larson, elec. clk.; 2,650 met.; no gen.; pur. 32 million kWh; rev. \$1,473,304. (1927)*⁵

MADISON, Borough of, Elec. Util., Hartley Dodge Memorial, Kings Road, 07940, 201/593-3043, James R. Allison, admin.; 6,001 met.; no gen.; pur. 103,776,000 kWh; rev. \$9,643,138. (1889)*⁷

MILLTOWN, Borough of, 39 Washington Ave., 08850, 201/828-2100, Michael S. Januszka, clerk/comptroller; 2,681 met.; no gen.; pur. 35,498,000 kWh; rev. \$3,100,000.⁶

PARK RIDGE Elec. Co., 53 Park Ave., 07656, 201/391-2113, Robert F. Kenney, dir. of oper.; 3,121 met.; no gen.; pur. 42,201,600 kWh; rev. \$3,356,000. (1904)*†⁷

PATERSON Municipal Utilities Authority, Traffic Operations Center, N. Barclay St., 07510, 201/881-3313, John Topalian, proj. mgr.; (Authority established in 1981 rehabilitated 73-year-old 11-MW hydro project on Passaic River. Output sold to Public Service Electric & Gas Co.)⁷

PEMBERTON, Borough of, Elec., 114 Hanover St., Box 261, 08068, 609/894-8222, Edward Kaelin, supt.; 510 met.; no gen.; rev. \$539,262. (1921)*⁵

SEASIDE HEIGHTS Elec. Co., 901 Boulevard Ipr, 08751, 201/793-0359, Leonard Ipr, supt.; 4,000 met.; no gen. (1921)*⁶

SOUTH RIVER, Borough of, 410 Whitehead Ave., Box 232, 08882-0232, 201/257-9051, George Freeman, supt. of elec.; 5,576 met.; no gen.; pur. 41,433,600 kWh; rev. \$3,140,916. (1908)*⁵

VINELAND, City of, Elec. Util., Seventh and Wood Sts., 08360, 609/794-4166, Harry A. Maloney III, dir. of elec. util.; 16,315 met.; gen.

110,050 kW, 27,200 kW coal, 49,250 kW oil (steam turbine), 33,600 kW oil (combust. turbine); 121,852,000 kWh; pur. 257,316,000 kWh; rev. \$26,394,934. (1900)*⁵

NEW MEXICO

AZTEC, City of, 201 W. Chaco, 87410, 505/334-9456, T. Blancett, city mgr.; 2,500 met.; gen. 1,600 kW gas. (1956)*⁶

FARMINGTON, City of, Elec. Util. System, 800 Municipal Dr., 87401, 505/327-7701, Wm. T. Statton, elec. util. dir.; 27,641 met.; gen. 76,650 kW, 42,000 kW coal (steam turbine), 32,000 kW gas (steam turbine), 1,750 kW oil (eng.-standby), 650 kW gas (eng.-standby), 250 kW hydro; 309,335,000 kWh; pur. 108,603,000 kWh; rev. \$30,979,000. (1964)*†⁷

GALLUP City of, Joint Utils., Box 1270, 87301, 505/863-6871 ext. 288, Robert C. Noe, elec. dir.; 9,609 met.; no gen.; pur. 169,976,513 kWh; rev. \$13,939,475. (1941)*⁷

LOS ALAMOS County, Dept. of Pub. Utils., 901 Trinity Dr., Box 30, Los Alamos, 87544, 505/662-8130, D. Christopher Ortega, utils. mgr.; 6,379 met.; no gen.; pur. 288,131,400 kWh; rev. \$5,828,499. (1967)*†⁶

RATON Pub. Service Co., 224 Savage Ave., Box 40, 87740, 505/445-9861, Nardi Gabriele, gen. mgr.; 3,959 met.; gen. 11,000 kW coal (steam turbine); 34,335,500 kWh; pur. 17,633,020 kWh; rev. \$2,993,802. (1919)*†⁷

SPRINGER, Town of, Box 488, 87747, 505/483-2682, Lloyd W. Miles, town admin.; 717 met.; no gen.; pur. 5,138,000 kWh; rev. \$533,000.⁷

TRUTH OR CONSEQUENCES, City of, 605 Sims St., 87901, Gene E. Hoskinson, elec. util. dir.; 3,389 met.; no gen.; pur. 37,669,301 kWh; rev. \$2,098,000. (1934)*⁷

NEW YORK

AKRON, Village of, 21 Main St., 14001, 716/542-9636, Thomas C. Perry, mayor; 1,340 met.; no gen.; pur. 40,119,600 kWh; rev. \$970,086. (1903)*†⁷

ANDOVER, Village of, Elec. Dept., 4 Main St., 14806, 607/478-8455,

Maynard Towner, supt.; 538 met.; no gen.; pur. 5,597,800 kWh; rev. \$173,431. (1913)*†⁷

ANGELICA, Village of, White St., Box 158, 14709, 716/466-7431, Shirley Ross, village clk.; 600 met.; no gen.; pur. 6,572,975 kWh; rev. \$201,538. (1930)*†⁶

ARCADE, Village of, 17 Church St., 14173, 716/492-1111, Larry A. Kilburn, supt. pub. works; 3,181 met.; no gen.; pur. 107,178,000 kWh; rev. \$2,315,024. (1909)*†⁷

BATH Elec. Gas & Water System, Drawer 310, 14810, 607/776-3072, W. N. Wrinkle, dir.; 4,244 met.; no gen.; pur. 65,266,400 kWh; rev. \$1,814,186. (1915)*†⁷

BERGEN, Village of, 16 N. Lake St., 14416, 716/494-1513, Roy Hill, supt.; 528 met.; no gen.; pur. 15,902,300 kWh; rev. \$571,698. (1909)*†⁷

BOONVILLE, Mun. Comm. of, Box 59, 13309, 315/942-4461, John W. Gilbert, supt.; 2,426 met.; no gen.; pur. 48,142,700 kWh; rev. \$1,613,235. (1903)*†⁷

BROCTON Village of, 34 W. Main St., 14716, 716/792-4160, Rick Manzella, line foreman; 696 met.; no gen.; pur. 9,004,400 kWh; rev. \$177,507. (1904)*†⁶

CASTILE Mun. Elec. Sys., 51 N. Main St., Box 515, 14427, 716/493-5340, Lynn D. Washburn, supt. of pub. works; 578 met.; no gen.; pur. 6,652,700 kWh; rev. \$201,184. (1903)*†⁷

CHURCHVILLE Village of, 9 E. Buffalo St., Box M, 14428, 716/293-3720, Ronald J. Trinkl, supt.; 692 met.; no gen.; pur. 13,546,700 kWh; rev. \$483,401. (1921)*†⁷

ENDICOTT Mun. Light Plant, Municipal Plaza, 1009 E. Main St., 13760, 607/757-2450, Harold Andrews, supt.; 3,197 met.; no gen.; pur. 44,423,900 kWh; rev. \$1,401,971.⁷ (1906)*†⁷

FAIRPORT Mun. Comm., 31 S. Main St., Box 500, 14450, 716/223-0440, Robert N. Vaisey, gen. mgr.; 11,933 met.; no gen.; pur. 292,302,000 kWh; rev. \$9,069,321. (1901)*†⁷

FRANKFORT Power & Light, Municipal Plant Drive, 13340, 315/894-3893, Francis Grates, mayor; 19,208 met.; no gen.; pur. 15,925,460 kWh; rev. \$553,566. (1960)*†⁷

FREEPORT Mun. Elec. Util., 46 N. Ocean Ave., 11520, 516/378-4000, William A. Corninos, gen. mgr., elec. utils.; 13,941 met.; gen. 50,580 kW;

18,180 kW oil (gas combus. turbine); 32,400 kW oil (int. combus. eng.) 7,261,030 kWh; pur. 192,112,000 kWh; rev. \$11,679,764. (1896)*†⁵

GOVERNEUR, Village of, 33 Clinton St., 13642, 315/287-0110, Ronald Cochrane, supt.; (no retail customers); gen. 160 kW hydro. (1923)⁵

GREENE, Village of, Elec. Dept., Box 207, 13778, Harvey Stalker, elec. supt.; 1,147 met.; no gen.; pur. 26,400,000 kWh; rev. \$875,000. (1900)*†⁷

GREEN ISLAND, Village of, 20 Clinton St., 12183, 518/273-2201, John W. Demarest, supt.; 1,222 met.; no gen.; pur. 9,274,100 kWh; rev. \$335,930. (1895)*†⁷

GREENPORT, Village of, Mun. Utils., 236 Third St., Box AH, 11944, 516/477-1748, James I. Monsell, supt. of utils.; 1,796 met.; gen. 6,965 kW (eng.); 256,000 kWh; pur. 23,971,170 kWh; rev. \$1,439,266. (1899)*†⁷

GROTON, Mun. Elec., 108 E. Cortland St., 13073, 607/898-3001, Frank Satterly, dir. of utils.; 870 met.; no gen.; pur. 16,957,630 kWh; rev. \$437,308. (1933)*†⁷

HAMILTON Mun. Power System, Village Office, 3 Broad St., Box 119, 13346, 315/824-1111, John Rathbone, village engr.; 1,407 met.; no gen.; pur. 42,320,000 kWh; rev. \$1,522,857. (1895)*†⁵

HOLLEY Mun. Elec. Dept., 72 Public Square, 14470, 716/638-6367, Scott Parker, supv.; 845 met.; no gen.; pur. 18,215,000 kWh; \$439,470. (1889)*†⁷

ILION Bd. of Light Comm., 49 Morgan St., 13357, 315/805-7749, Kevin J. Manfreda, supt.; 3,380 met.; no gen.; pur. 59,927,773 kWh; rev. \$1,156,000. (1901)*†⁷

JAMESTOWN, City of, Bd. of Pub. Util., Box 700, 14702-0700, 716/483-7500, R. James Gronquist, gen. mgr.; 19,876 met.; gen. 50,000 kW coal (steam turbine), 196,259,000 kWh; pur. 320,997,144 kWh; rev. \$14,144,109. (1891)*†⁶

LAKE PLACID Mun. Elec., 301 Main St., 12946, 518/523-2021, Charles White, supt.; 3,903 met.; no gen.; pur. 99,935,884 kWh; rev. \$3,791,853. (1906)*†⁷

LITTLE VALLEY, Village of, Mun. Elec., Municipal Bldg., 14755, 716/938-9151, Robert Milks, elec. dept. supvr.; 1,160 met.; no gen.; pur. 16,001,000 kWh; rev. \$572,457. (1896)*†⁶

LONG ISLAND POWER AUTHORITY, 114 Old Country Rd., Suite 204, Min-

eola 11501, 516/742-2200, William L. Mack, chmn. (The authority was established in July 1986 to acquire assets of the Long Island Lighting Co. if LIPA first determines that it could provide electric service cheaper than LILCO's.)

MARATHON, Village of, Lighting Plant, 18 Tannery St., Box 519, 13803, 607/849-6795, Robert P. Braman, supt.; 736 met.; no gen.; pur. 14,207,100 kWh; rev. \$506,370. (1901)*†⁶

MASSENA Elec. Dept., 71 E. Hatfield St., Box 209, 13662, 315/764-0253, Clifford G. Engstrom, gen. mgr.; 8,390 met.; no gen.; pur. 110,715,141 kWh; rev. \$5,395,173. (1981)*†⁷

MAYVILLE, Village of, Elec. Dept., Box 188, 14757, 716/753-2125, Chester E. Crandall, pub. works supt.; 1,000 met.; no gen.; pur. 19,995,400 kWh; rev. \$460,728. (1896)*†⁷

MOHAWK Mun. Comm., 28 Columbia St., 13407, 315/866-4170, William P. Buddenhagen, utils. supvr.; 1,273 met.; no gen.; pur. 18,974,200 kWh; rev. \$590,019. (1904)*†⁷

NEW YORK POWER AUTHORITY, 10 Columbus Circle, New York, N.Y., 10019, 212/397-6200, and 1030 15th St. N.W., Suite 402, Washington, D.C. 20005, 202/371-5606, J. Phillip Bayne, pres.; 164 met.; gen. 6,888,750 kW, 883,000 kW dual-fuel (steam turbine), 4,109,750 kW hydro, 1,896,000 kW nuclear, 38,344,064,000 kWh; pur. 8,573,739,000 kWh; rev. \$1,135,446,641. (1931)*†⁷

PENN YAN Mun. Bd., 2 Maiden Lane, 14527, 315/536-3374, Wesley G. Ryder, utils. mgr.; 2,750 met.; no gen.; sales 45,175,941 kWh; rev. \$1,362,259. (1905)*†⁵

PHILADELPHIA Mun. Elec. System, 56 Main St., Box 70, 13673, 315/642-3452, Wayne Huntress, mayor; 392 met.; no gen.; pur. 6,893,800 kWh; rev. \$205,588. (1906)*†⁵

PLATTSBURGH Mun. Lighting Dept., 6 Miller St., 12901, 516/563-2200, Carlton Rennell, mayor; 8,455 met.; no gen.; pur. 486,306,362 kWh; rev. \$9,939,554. (1941)*†⁷

RICHMONDVILLE, Village of, Power & Light, 22 E. Main St., Box L, 12149, 518/294-7700, Bruce Stevens, supt.; 895 met.; no gen.; pur. 10,309,000 kWh; rev. \$404,805. (1918)*†⁷

ROCKVILLE CENTRE, Village of, Inc., Box 950, 11571, 516/766-0300, Patrick J. Hester, supt. of utils.; 10,078 met.; gen. 31,348 kW dual-

fuel (eng.), 32,214,000 kWh; pur. 128,990,000 kWh; rev. \$7,488,000. (1898)*†⁷

ROUSES POINT, Village of, Box 185 Lake St., 12979, 518/297-5502, Terry Dunn, village adm.; 1,120 met.; no gen.; pur. 65,791,000 kWh; rev. \$1,959,403. (1903)*†⁶

SALAMANCA Bd. of Pub. Utils., 225 Wildwood Ave., 14779, 716/945-3130, James M. Brundage, gen. mgr.; 3,236 met.; no gen.; pur. 48,792,200 kWh; rev. \$1,262,906. (1913)*†⁶

SHERBURNE, Village of, 15 W. State St., 13460, 607/674-2300, Donald F. Jeffrey, supt.; 1,790 met.; no gen.; pur. 50,466,000 kWh; rev. \$913,544. (1907)*†⁶

SHERILL Power and Light, 601 Sherrill Rd., 13461, 315/363-6479, Lawrence A. Pickard, supt.; 1,337 met.; no gen.; pur. 56,201,000 kWh; rev. \$1,003,472. (1977)*†⁷

SILVER SPRINGS, Village of, Mun. Elec., 43 N. Main St., 14550, 716/493-2500, Robert E. Kupp, supt. pub. wks.; 369 met.; no gen.; sales 3,458,701 kWh; rev. \$132,047. (1912)*†⁶

SKANEATELES, Village of, Electric, 46 E. Genesee St., 13152, 315/685-5628, James A. Buff, supt. of utils.; 1,312 met.; no gen.; pur. 22,368,700 kWh; rev. \$867,638. (1900)*†⁷

SOLWAY, Village of, Elec. Dept., 507 Charles Ave., 13209, 315/468-6229, M. V. Raman, elec. supt.; 4,454 met.; no gen.; pur. 365,041,300 kWh; rev. \$5,747,346. (1896)*†⁷

SPENCERPORT, Village of, 27 West Ave., 14559, 716/352-4771, James C. Bleier, supt.; 2,193 met.; no gen.; pur. 47,248,600 kWh; rev. \$980,384. (1916)*†⁷

SPRINGVILLE, Village of, Elec. Dept., 5 W. Main St., 14141, 716/592-4936, John Lipoff, elec. supvr.; 2,167 met.; gen. 520 kW hydro, 2,282,750 kWh; pur. 46,013,030 kWh; rev. \$1,339,070. (1895)*†⁷

THERESA, Mun. Lights, Commercial St., Box 297, 13691, 315/628-4425, Thomas O'Driscoll, mayor; 385 met.; no gen.; pur. 4,723,674 kWh; rev. \$163,213. (1906)*†⁶

TUPPER LAKE Municipal, 53 Park St., 12986, 518/359-3341, Donald T. Trudeau, elec. supt.; 2,854 met.; no gen.; pur. 65,999,200 kWh; rev. \$2,240,438. (1903)*†⁷

WATERTOWN, City of, Elec. Dept., 245 Washington St., Room 305,

Municipal Bldg., 13601, 315/785-7740, Willard S. Abel, city engr.; 57 met. (no retail customers); gen. 5,400 kW hydro, 27,615,000 kWh; pur. 2,385,000 kWh; rev. \$494,000. (1924)⁵

WATKINS GLEN, Village of, 303 N. Franklin St., 14891, 607/535-2736, John B. Doolittle, elec. mgr.; 1,283 met.; no gen.; pur. 34,253,300 kWh; rev. \$554,253. (1918)*†⁷

WELLSVILLE, Village of, Dept. of Pub. Utils., 156 N. Main St., 14895, 716/593-4958, Donald MacFarquhar, dir. of pub. works; 2,600 met.; no gen.; pur. 45,491,700 kWh; rev. \$879,509. (1915)*†⁶

WESTFIELD, Village of, BPU Elec. Dept., 23 Elm St., 14787, 716/326-2145, LeRoy J. Hamilton, elec. supt.; 2,818 met.; no gen.; pur. 64,126,500 kWh; rev. \$1,114,746. (1892)*†⁷

NORTH CAROLINA

ALBEMARLE, Elec. Dist. System, Box 190, 28002-0190, 704/982-0131, D. Lendell Smith Jr., dir. pub. wks.; 10,285 met.; no gen.; pur. 246,537,229 kWh; rev. \$14,030,039. (1910)*†⁷

APEX, Town of, Box 250, 27502, 919/362-8166, Larry Thomas, dir. of pub. wks.; 2,082 met.; no gen.; pur. 34,013,205 kWh; rev. \$2,560,280. (1923)*†⁷

AYDEN, Town of, Box 219, 28513, 919/746-3254, Mitchell L. Keel, dir. of utils.; 2,870 met.; no gen.; pur. 48,761,363 kWh; rev. \$3,165,000. (1915)*†⁷

BELHAVEN, Town of, Box 220, 27810, 919/943-3105, Ray Cotterman, elec. supt.; 1,135 met.; no gen.; pur. 16,475,503 kWh; rev. \$1,231,467. (est. 1920)*†⁵

BENSON, Town of, Box 157, 27504, 919/894-4327, Zeke Lucas, dir. of pub. utils.; 1,424 met.; no gen. (1913)*†⁷

BLACK CREEK, Town of, 112 W. Center St., Box 8, 27813, 919/243-6439, Janie Aycock, Lamm, town clerk; 548 met.; no gen.; pur. 6,920,336 kWh; rev. \$602,242. (1922)*†⁷

BOSTIC Town of, Box 158, 28018, 704/245-2187, Charles Morgan, supt. of lights; 162 met.; no gen. (1920)*†⁷

CHERRYVILLE, City of, 116 S. Mountain St., 28021,

NORTH CAROLINA (continued)

704/435-4181, Ted Mace, dir. of pub. works; 2,364 met.; no gen.; pur. 51,783,000 kWh; rev. \$3,013,000. (1906)*⁷

CLAYTON, Town of, 231 E. Second St., Box 879, 27520, 919/553-5002, Fran Davis, town clk.; 2,360 met.; no gen.; pur. 48,749,129 kWh; rev. \$2,765,514. (1925)*⁶

CONCORD Bd. of Light & Water Comm., Box 567, 28025, 704/786-6161, Stephen Slough, dir.; 15,096 met.; no gen.; pur. 289,876,320 kWh; rev. \$16,643,695. (1901)*⁶

CORNELIUS, Town of, Box 66, 28031, 704/892-6031, Buddy Reid, dir. util.; 890 met.; no gen.*⁷

DALLAS, Town of, 131 N. Gaston St., 28034, 704/922-3176, Scott Braddy, supt.; 2,619 met.; no gen.; pur. 39.8 million kWh; rev. \$1,986,886. (1925)⁵

DREXEL, Town of, Box 188, 28619, 704/437-7421, Morris Baker, town mgr.; 985 met.; no gen.; pur. 14,693,474 kWh; rev. \$801,481. (1927)*⁶

EDENTON, Town of, Utils., Box 300, 27932, 919/482-2155, William Crummey, util. dir.; 3,304 met.; no gen.; pur. 82,249,123 kWh; rev. \$5,834,060. (1900)*⁷

ELIZABETH CITY, City of, Box 347, 27909, 919/338-3981, Ronnie Dail, util. dir.; 8,748 met.; no gen.; pur. 193,788,970 kWh; rev. \$14,452,054. (1923)*⁶

ENFIELD Elec. Utils., Box 695, 27823, 919/445-3146, Joseph N. Adkins, util. dir.; 1,650 met.; no gen.⁷

FARMVILLE, Town of, 121 Main St., Box 87, 27828, 919/753-3021, C. W. Modlin Jr., util. dir.; 2,406 met.; no gen.; pur. 53,893,048 kWh; rev. \$3,579,375. (1915)*⁷

FAYETTEVILLE Pub. Wks. Comm., Box 1089, 28302, 919/483-1382, Tim Wood, gen. mgr.; 619,540 met.; gen. 188,200 kW dual-fuel (combust. turbine); 82,030,040 kWh; pur. 1,395,285,000 kWh; rev. \$90,935,489. (1905)*⁷

FOREST CITY, Town of, Box 728, 28043, 704/245-0149, Herb Toms, dir. pub. wks.; 4,175 met.; no gen.; pur. 115,479,255 kWh; rev. \$6,231,687.⁷

FOUNTAIN Town of, Box 134, 27829, 919/749-2881, Robert Drew, dir.; 335 met.; no gen. (approx. 1936)*⁷

FREMONT, Town of, Box 818, 27830, 919/242-5151, Ray Radford, pub. works dir.; 909 met.; no gen.; pur. 13,012,746 kWh; rev. \$862,058. (1924)*⁵

GASTONIA, City of, Elec. Dept., 1300 N. Broad St., 28054, 704/866-6823, Dale F. Becker, dir. of elec. utils.; no gen.; 20,925 met.; pur. 518,438,890 kWh; rev. \$29,647,002. (1900)*⁷

GRANITE FALLS, Town of, Drawer 10, 28630, 704/396-3131, Linda K. Story, town mgr.; 1,526 met.; no gen.; sales 28,453,173 kWh; rev. \$1,991,634.*⁷

GREENVILLE Utils. Comm., Box 1847, 27835, 919/752-7166, Malcolm A. Green, gen. mgr.; 30,821 met.; no gen.; pur. 874,701,747 kWh; rev. \$55,791,952. (1905)*⁷

HAMILTON, Town of, Box 249, 27840, 919/798-2001, Kathy Moore, town clerk; 240 met.; no gen. (1922)*⁷

HERTFORD, Town of, Box 32, 27944, 919/426-5311, W. D. Cox, town mgr.; 1,388 met.; no gen.; pur. 19,709,040 kWh; rev. \$1,636,718. (1918)*⁷

HIGHLANDS Mun. Plant, Box 460, 28741, 704/526-2118, Arnold Keener, supt.; 2,100 met.; pur. 21,919,000 kWh; rev. \$1,352,000. (1926)⁷

HIGH POINT, City of, Elec. Utils., Box 230, 27261, 919/887-2511, Lloyd Shank Jr.; 28,046 met.; no gen.; pur. 646,434,248 kWh; rev. \$38,487,000. (1892)*⁷

HOBGOOD Town of, Box 217, 27843, 919/826-4573, S.G. Burnett, elec. commissioner; 310 met.; no gen.; sales 3,391,287 kWh; rev. \$269,939. (1973)*⁵

HOOKEKTON Town of, Box 296, 28538, 919/747-3816, Lillian Hardy, town clk.; 368 met.; no gen.; pur. 5,717,362 kWh; rev. \$399,919.*⁷

HUNTERSVILLE, Town of, Box 318, 28655, 704/875-6541, Steve D. Carpenter, town mgr.; 796 met.; no gen.; sales 15,790,544 kWh; rev. \$1,142,681.*⁷

KINGS MOUNTAIN, City of, Box 429, 28086, 704/734-0333, John Henry Moss, mayor; 3,560 met.; no gen.; pur. 92,970,000 kWh; rev. \$5,409,000. (1903)⁷

KINSTON, City of, Elec. Utils., Box 339, 28501, 919/527-0102, Ronald D. Wicker, dir. pub. utils.; 12,689 met.; no gen.; pur.

326,954,000 kWh; rev. \$20,570,000.*⁶

LA GRANGE, Town of, Box 368, 28551, 919/566-3186, Edward B. Walters, dir. pub. utils.; 1,401 met.; no gen.; pur. 21,368,985 kWh; rev. \$1,677,789.*⁷

LANDIS Light & Power Dept., 136 N. Central Ave., Box 8165, 28088, 704/857-2411, Gary E. Miller, dir. util.; 2,260 met.; no gen.*⁵

LAURINBURG, City of, Box 249, 28352, 919/276-8324, P. G. Vandenberg, city mgr.; 4,837 met.; no gen.; pur. 100,758,189 kWh; rev. \$6,404,567. (1925)*⁷

LEXINGTON, City of, 28 W. Center St., 27292, 704/246-2489, Bruce L. Kirk, supt.; 14,489 met.; no gen.; sales 317,746,880 kWh; rev. \$17,393,107. (1902)*⁵

LINCOLNTON, City of, Light & Power Dept., Box 617, 28092, 704/732-2281, David E. Lowe, city mgr.; 2,376 met.; no gen.; rev. \$2,729,754. (1900)*⁶

LOUISBURG, Town of, 110 W. Nash St., 27549, 919/496-3406, C. L. Gobble, town admin.; 1,761 met.; no gen.; pur. 42,926,875 kWh; rev. \$2,828,077.*⁷

LUCAMA Light Plant, Box 127, 27851, 919/239-0560, Donnie Barnes, dir. util.; 1,039 met.*⁷

LUMBERTON, City of, 420 Halsey St., 28358, 919/738-2255, Wayne Hedgpeth, elec. util. dir.; 8,570 met.; no gen.; pur. 227,406,558 kWh; rev. \$15,026,118. (1915)*⁶

MACCLESFIELD, Town of, Elec. Dept., Box 185, 27852, 919/827-4823, Wiley Ford, dir. of pub. works; 300 met.; rev. \$200,000 (1928)*⁵

MAIDEN, Town of, 113 W. Main St., 28650, 704/428-8178, J. Michael Moore, town mgr.; 870 met.; no gen.; pur. 38,789,890 kWh; rev. \$2,041,539. (1928)*⁶

MONROE, City of, Box 69, 28110, 704/289-8557, J. E. Hinkel, city mgr.; 7,502 met.; no gen.; pur. 340,989,809 kWh; rev. \$18,526,669. (1898)*⁷

MORGANTON, City of, Drawer 430, 28655, 704/437-8863, Robert R. Collins, city mgr.; 7,528 met.; no gen.; pur. 232,808,548 kWh; rev. \$13,135,743. (1908)*⁷

MURPHY, Elec. Power Bd., Box 130, 28906, 704/837-2211, John Carringer, mgr.; 2,808 met.; no gen.; sales 117,136,457 kWh; rev.

\$6,036,734. (TVA power distributor) (1922)*⁶

NEW BERN, City of, Box 1129, 28560, 919/633-5161, J. C. Outlaw, dir. of elec. utils.; 14,161 met.; no gen.; pur. 306,114,681 kWh; rev. \$21,225,789. (1906)*⁷

NEW RIVER LIGHT & POWER CO., (subsidiary of Appalachian State University), Winkler's Creek Rd., Box 1130, Boone, 28607, 704/264-3671, Donald R. Austin, gen. mgr.; 5,772 met.; no gen.; pur. 146,262,339 kWh; rev. \$8,527,422. (1915)*⁷

NEWTON, City of, Drawer 550, 28658, 704/464-1282, Kelly Almond, city mgr.; 3,521 met.; no gen.; pur. 70,189,042 kWh; rev. \$4,118,727.*⁶

OAK CITY Mun. Utils., Box 298, 27857, 919/798-7721, Laurie Joyner, town clk.; 238 met.; no gen.; pur. 2,833,700 kWh; rev. \$171,853.⁵

PIKEVILLE, Town of, Box 9, 27863, 919/242-5126, Robert W. Davy, town admin.; 505 met.; no gen.; sales 7,920,577 kWh; rev. \$548,656. (1934)*⁷

PINETOPS, Town of, Drawer C, 27864, 919/827-4435, Milton Carlton, town admin.; 750 met.; no gen.; pur. 13,712,765 kWh; rev. \$1,084,000. (1925)*⁷

PINEVILLE, Elec., 200 Dover St., 28134, 704/889-2291, Joe Baker, town mgr.; 750 met.; no gen.; pur. 14,695,371 kWh; rev. \$988,650. (1934)*⁵

RED SPRINGS, Town of, 217 S. Main St., 28377, 919/843-5241, Paul Morrison, elec. supt.; 1,711 met.; no gen.; pur. 1,374,613 kWh; rev. \$1,664,832. (1920)*⁶

ROBERSONVILLE, Town of, Box 487, 27871, 919/795-3511, William Wynn, dir. pub. wks.; 1,246 met.; no gen.; pur. 32,531,119 kWh; rev. \$1,836,466. (1935)*⁷

ROCKY MOUNT, City of, One Government Plaza, Drawer 1180, 27802, 919/972-1271, William H. Batchelor, city mgr.; 23,368 met.; no gen.; pur. 694,634,880 kWh; rev. \$43,867,668. (1902)*⁷

SCOTLAND NECK, Town of, Box 537, 27874, 919/826-3152, Rick Beasley, town admin.; 1,592 met.; no gen.; pur. 27,167,192 kWh; rev. \$1,989,090.*⁷

SELMA, Town of, 100 N. Raeford St., 27576, 919/965-9841, C. Fred Murray, elec. supt.; 2,078 met.; no gen.; pur. 40,246,733 kWh; rev. \$2,598,612.*⁷

NORTH CAROLINA (continued)

SHARPSBURG, Town of, Box 305, 27878, 919/446-9441, Wayne Cochran, town supt. of lights; 1,156 met.; no gen.; pur. 16,052.287 kWh; rev. \$1,104,720. (1920)*⁷

SHELBY, City of, Box 207, 28150, 704/482-7367, David Wilkinson, city mgr.; 7,422 met.; no gen.; pur. 157,687,487 kWh; rev. \$9,848,346. (1913)*⁴

SMITHFIELD, Town of, Box 761, 27577, 919/934-2116, Tony Robertson, town mgr.; 3,925 met.; no gen.; sales 84,157,553 kWh; rev. \$5,676,989.*⁵

SOUTHPORT, City of, 201 E. Moore St., 28461, 919/457-6911, James Splawn, util. dir.; 1,725 met.; no gen.; pur. 32,672,437 kWh; rev. \$2,283,921. (1910)*⁵

STANTONSBURG, Town of, Box 10, 27883, 919/238-3608, Roland L. Gardner, town mgr.; 979 met.; no gen.; pur. 14,630,067 kWh; rev. \$1,159,503. (1928)*⁷

STATESVILLE, City of, Box 1111, 28677, 704/878-3419, Larry M. Cranford, dir. util.; 11,594 met.; no gen.; pur. 327,631,761 kWh; rev. \$20,613,000. (1889)*⁷

TARBORO, Town of, Box 220, 27886, 919/641-4252, Ricky Page, dir. of elec. utils.; 5,284 met.; no gen.; pur. 209,418,715 kWh; rev. \$13,185,563. (1898)*⁷

WAKE FOREST, Town of, 401 Elm St., 27587, 919/556-2024, Jerry Walters, town adm.; 2,800 met.; no gen.; pur. 42,176,643 kWh; rev. \$2,832,322. (1915)*⁷

WALSTONBURG, Town of, Box 126, 27888, 919/753-5667, Peggy D. Gay, town clerk; 132 met.; no gen.; pur. 1,993,294 kWh; rev. \$161,107.*⁷

WASHINGTON, City of, Box 1988, 27889, 919/946-1033, Ralph A. Clark, city mgr.; 9,620 met.; no gen.; pur. 199,256,452 kWh; rev. \$14,142,000. (1910)*⁷

WAYNESVILLE, Town of, Elec. Dept.; 106 S. Main St., 28786, 704/456-3515, William M. Green, dir. of finance; 2,261 met.; no gen.; pur. 45,578,000 kWh; rev. \$2,853,892.*⁵

WILSON, City of, Box 10, 27893, 919/291-8111, Cyrus Brooks, city mgr.; 26,883 met.; no gen.; pur. 794,270,022 kWh; rev. \$46,980,632. (1892)*⁷

WINDSOR, Town of, Box 508, 27983, 919/794-2331, David Overton, town admin.; 1,502 met.; no

gen.; pur. 31,369,425 kWh; rev. \$2,366,059. (1920)*⁷

WINTERVILLE, Town of, Box 431, 28590, 919/756-2221, Harvey Lee Joyner, supt.; 1,250 met.; no gen.; pur. 19,912,451 kWh; rev. \$1,424,769. (1890)*⁷

NORTH DAKOTA

CAVALIER Electric & Water Plant, Box B, 58220, 701/265-8668, R. J. Kihne, plant mgr.; 742 met.; no gen.; sales 22,093,000 kWh; rev. \$742,000. (1928)*⁷

GRAFTON, Light & Water Dept., 5 East 4th St., Box 578, 58237, 701/352-2180, Bruce Lenz, power supt.; 2,330 met.; gen. 2,640 kW oil (eng.); 5,400 kWh; pur. 57,923,775 kWh; rev. \$2,167,768. (1890)*⁷

HILLSBORO, City of, Box J, 58045, 701/436-4620, James Brekke, city auditor; 1,076 met.; no gen.; pur. 19,551,000 kWh; rev. \$771,193.*⁷

HOPE City Light & Power, 58046, 701/945-2772, Mark Lemley, dir.; 140 met.; no gen.; pur. 10,000,000 kWh; rev. \$140,000. (1920)*⁵

LAKOTA Mun. Utils., Box 505, 58344, 701/247-2454, Arlene Clauson, mayor; 525 met.; no gen.; pur. 13,302,930 kWh; rev. \$443,394. (1930)*⁷

MADDOCK, Municipal Power, 58348, 701/438-2335, Odell A. Hakanson, util. supt.; 388 met.; no gen.; pur. 5,424,400 kWh; rev. \$354,925. (1920s)*⁵

NORTHWOOD, Mun. Light Plant, 12 North Raymond, 58267, 701/587-6291, Arthur G. Bilden, mayor; 557 met.; gen. 1,811 kW oil (eng.); pur. 14,144,544 kWh; rev. \$676,000. (1912)*⁷

PARK RIVER Mun. Utils., 340 Prospect Ave., Box C, 58270, 701/284-6399, Russell Lien, supt.; 850 met.; no gen. pur. 20,939,232 kWh. (1901)*⁷

RIVERDALE, City of, Box 517, Riverdale 58565, 701/654-7411, Roy Snyder, project mgr., U.S. Corps of Engineers; 150 met.; City acquired Corps distribution system; Corps provides power and maintains and operates system. (1986)*⁵

SHARON Light & Power Dept., 58277, 701/524-2377, Gary Johnson, mayor; 72 met.; no gen.; pur. 2 million kWh; rev. \$55,000.*⁷

STANTON, City of, 58571, 701/745-3202, Raymond Brown, maint. supt.; 250 met.; no gen.; sales 3,767,040 kWh; rev. \$309,991. (1974)*⁷

VALLEY CITY Mun. Utils., 254 Second Ave. NE, 58072, 701/845-0380, LeRoy J. Neubauer, supt.; 4,121 met.; gen. 2,720 kW oil (eng.-standby); pur. 83,786,400 kWh; rev. \$2,597,000. (1897)*⁷

OHIO

AMHERST, Elec. Dept., 647 Park Ave., 44001, 216/984-2146, Donald Woodings, supt. of utils.; 3,352 met.; no gen.; sales 46,854,817 kWh; rev. \$3,068,977.*⁵

ARCADIA Electric Dept., Box 235, 44804, 419/894-6009, David Noel, adm.; 275 met.; no gen.; pur. 3,500,000 kWh; rev. \$250,000.*⁵

ARCANUM Water & Light Plant, 104 W. South St., 45304, 513/692-8565, Michael Clark, supt.; 1,288 met.; no gen.; pur. 18.8 million kWh; rev. \$1,004,000. (1905)*⁵

BEACH CITY, Mun. Elec., Bd. of Pub. Affairs, 301 N. Church St., 44608-0328, 216/756-2011, Robert Raff, supt.; 725 met.; no gen.; pur. 6,544,800 kWh; rev. \$383,744. (1919)*⁵

BETHEL Mun. Elec. System, 120 N. Main St., 45106, 513/734-2243, Dennis Barton, supt. of elec.; 1,337 met.; no gen.; pur. 20,716,796 kWh; rev. \$1,301,715. (1904)*⁷

BLANCHESTER Bd. of Pub. Affairs, Box 158, 45107, 513/783-2141, John Sornberger, dir. of util.; 1,800 met.; no gen.; pur. 42,065,108 kWh; rev. \$2,127,983. (1895)*⁵

BLOOMDALE Mun., 102 Maple St., Box 186, 44817, 419/454-2941, Raymon A. Taylor, village admr.; 300 met.; no gen.; pur. 2,702,400 kWh; rev. \$128,501.*⁶

BOWLING GREEN, City of, Mun. Utils., 304 N. Church St., Box 388, 43402, 419/354-6246, Charles Espen, actg. utils. dir.; 10,049 met.; no gen.; pur. 251,516,825 kWh; rev. \$10,678,385. (1942)*⁷

BRADNER, Bd. of Pub. Affairs, Church St., 43406, 419/288-2773, Richard Fairbanks, electrician; 510 met.; no gen.; pur. 4,200,000 kWh; rev. \$433,000.*⁷

BREWSTER Municipal Electric, 310 S. Wabash Ave., 44613, 216/767-3312, Leland Heath, elec. supt.; 933 met.; no gen.; pur.

19,603,024 kWh; rev. \$1,101,639. (1912)*⁵

BRYAN Mun. Light & Water Utils., 841 E. Edgerton St., 43506, 419/636-4232, ext. 227, John P. Curtin, dir. of utils.; 4,368 met.; gen. 23,000 kW, 20,500 kW dual-fuel (combust. turbine), 2,500 kW oil (eng.); 1,721,800 kWh; pur. 152,918,086 kWh; rev. \$7,699,000. (1898)*⁷

CAREY, Village of, Mun. Elec., 127 N. Vance St., 43316, 419/396-6130, Christian P. Morris, village admr.; 1,614 met.; no gen.; pur. 73,896,000 kWh; rev. \$3,128,934. (1909)*⁷

CELINA Mun. Utils., 426 W. Market St., 45822, 419/586-6464, Thomas A. Schwartz, dir. of pub. serv. & safety; 6,321 met.; no gen.; sales 118,589,317 kWh; rev. \$5,737,311. (1900)*⁷

CLEVELAND Public Power, 1201 Lakeside Ave., 44114, 216/664-2000, George S. Pofok, comm.; 49,271 met.; gen. 208,600 kW, 160,000 kW coal (steam turbine), 48,600 kW dual-fuel (combust. turbine), 7,395,000 kWh; pur. 655,535,430 kWh; rev. \$41,484,000. (1906)*⁷

CLYDE, Municipal Electric Dept., 222 N. Main, 43410, 419/547-0575, Nelson Summit, city mgr. (On Nov. 3, 1987, 72 percent of Clyde voters supported reestablishment of the electric department, which had been sold to Toledo Edison Co. in 1965. Municipal system will have about 2,000 meters.)⁷

COLUMBIANA, Village of, 28 W. Friend St., 44408, 216/482-2173, Donald J. Shaffer, serv. dir.; 2,404 met.; no gen.; sales 33,442,387 kWh; rev. \$2,022,000.*⁷

COLUMBUS, City of, Div. of Elec., 95 W. Long St., 43215, 614/222-8371, Henry A. Bell, admin.; 7,826 met.; gen. 90,000 kW coal (steam turbine), 387,552,000 kWh; pur. 116,678,000 kWh; rev. \$23,888,491. (1898)*⁷

CUSTAR, Bd. of Pub. Affairs, 9063 High St., 43511, 419/669-3537, Jerry Clink, pres.; 113 met.; no gen.; \$149,211.*⁶

CUYAHOGA FALLS Elec. System, 2550 Bailey Rd., 44221, 216/923-9921, C. O. Stout, supt.; 18,952 met.; no gen.; pur. 246,672,000 kWh; rev. \$14,291,029. (1899)*⁷

CYGNET Mun. Light Dept., Box 406, 43413, 419/655-2536, Tom Strickland, supt.; 258 met.; no gen.;

pur. 2.5 million kWh; rev. \$120,000. (1916)*⁵

DESHLER Mun. Utils., 101 E. Main St., 43516, 419/278-1831, Willis Schwiabert, supt. of utils.; 889 met.; no gen.; rev. \$683,029. (1916)*⁵

DOVER, City of, Light & Power, 116 E. Third St., City Hall, 44622, 216/343-7725, William J. English, serv. dir.; 6,830 met.; gen. 30,000 kW coal (steam turbine), 2,665 kW oil (eng.); 85,831,500 kWh; pur. 65,966,000 kWh; rev. \$5,518,414. (1900)*⁷

EDGERTON Utils., Box 609, 43517, 419/298-2912, Dale A. Mathys, village admin.; 854 met.; no gen.; pur. 15,765,097 kWh; rev. \$864,000. (1937)*⁷

ELDORADO Mun. Light & Water, Box 150, 45320, 513/273-8705, James Eyer, supt.; 245 met.; no gen.; pur. 2,829,108 kWh; rev. \$153,536. (1940)*⁷

ELMORE, Village of, Bd. of Pub. Affairs, 340 Clinton St., 43416-0001, 419/862-3454, Merle Harder, village supt.; 750 met.; no gen.; pur. 6,716,234 kWh; rev. \$423,000. (1911)*⁷

GALION Mun. Light & Power, 700 Primrose St., 44833, 419/468-5520, Mel Davis, supt.; 5,958 met.; no gen.; pur. 95,928,000 kWh; rev. \$4,747,414. (early 1900s)*⁷

GENOA Utils. Dept., 601 E. 6th St., 43430, 419/855-8419, William Bauer, supt. of utils.; 890 met.; no gen.; pur. 105,390 kWh; rev. \$756,763. (1925)*⁵

GEORGETOWN Utils., 301 S. Main St., 45121, 513/378-6395, Milford Fisher, village admin.; 1,700 met.; no gen.; pur. 27,839,175 kWh; rev. \$1,532,906.*⁵

GLOUSTER Water & Elec. Dept., 16 Front St., 45732, 614/767-3497, Delbert Skinner, supt.; 1,009 met.; no gen.; pur. 7,410,000 kWh; rev. \$528,793. (1924)*⁵

GRAFTON, Village Elec. Util., 1009 Chestnut St., 44044, 216/926-2401, Allen Bartlett, village admin.; 881 met.; no gen.; pur. 12,526,155 kWh; rev. \$777,165.*⁵

GREENWICH Water & Light, 18 New St., 44837, 419/752-4725, Mike King, admin.; 620 met.; no gen.; pur. 10,994,600 kWh; rev. \$540,600.*⁷

HAMERSVILLE Bd. of Pub. Affairs, Box 146, 45130, 513/379-1716, Kay Elliott, clerk; 265 met.*⁵

HAMILTON Dept. of Pub. Utils., 20 High St., 45011, 513/868-5907, E.

Leon Daggett, dir. of utils.; 25,615 met.; gen. 123,000 kW, 75,650 kW coal (steam turbine), 23,000 kW gas (steam turbine), 27,500 kW gas (combust. turbine), 800 kW hydro; 216,399,845 kWh; pur. 239,667,000 kWh; rev. \$28,357,866. (1929)*⁷

HASKINS Mun. Light & Power, 101 N. Church St., 43525, 419/823-5911, Frank Enright, chief elec.; 279 met.; no gen.; pur. 2,010,900 kWh.*⁷

HUBBARD, Mun. Light & Power System, 13 W. Liberty St., 44425, 216/534-3054, Richard Slifko, utils. supt.; 3,500 met.; no gen.; pur. 45,424,000 kWh; rev. \$2,497,441. (1919)*⁶

HUDSON, Village of, Elec. Dept., 27 E. Main, 44236, 216/650-1052, W. F. Jacoby, supt.; 3,871 met.; no gen.; pur. 79,308,000 kWh; rev. \$5,474,749. (1911)*⁵

JACKSON, City of, Broadway St., Memorial Bldg., 45640, 614/286-2201, William McManis Jr.; 3,838 met.; no gen.; pur. 49,414,420 kWh; rev. \$2,802,897. (1890)*⁷

JACKSON CENTER Municipal, 122 E. Pike, Box 2, 45334, 513/596-5440, Richard Sailor, village admin.; 568 met.; no gen.; pur. 14,286,574 kWh; rev. \$986,436. (1920)*⁵

LAKEVIEW, Village of, Bd. of Trustees of Pub. Affairs, 126 Main St., Box 197, 43331, 513/843-2141, Ken Carnahan, lineman; 881 met.; no gen.; pur. 9,000,461 kWh; rev. \$460,000. (1912)*⁷

LEBANON, City of, City Bldg., 45036, 513/932-3060, Robert Newton, supt. elec. div.; 4,837 met.; gen. 6,000 kW oil (combust. turbine), 14,700 kW dual-fuel (eng.); 152,600 kWh; pur. 88,402,180 kWh; rev. \$5,151,442. (1898)*⁵

LODI Power & Light, 108 Ainsworth St., 44254, 216/948-2099, Carl Zdelar, supt.; 1,653 met.; no gen.; pur. 24,900,000 kWh; rev. \$1,185,000. (1942)*⁷

LUCAS, Village of, Box 213, 44843, 419/892-2178, James Sprang, supt.; 320 met.*⁵

MARSHALLVILLE Mun. Utils. Dept., Box 227, 44645, 216/855-2491, Herb Brillhart, supt.; 300 met.*⁵

MENDON, Village of, Box 167, 45862, 419/795-7131, Randy Stein, dir. of utils.; 316 met.; no gen.; pur. 4,413,369 kWh; rev. \$222,000.*⁷

MILAN Mun. Elec. Light Dept., 9 E. Church St., Box 1450, 44846, 419/499-2133, Larry Doerner, supt.;

649 met.; no gen.; pur. 7,885,980 kWh; rev. \$492,000. (1907)*⁶

MINSTER, Village of, Box 1, 45865, 419/628-2850, Joseph F. Bruns, supt.; no gen.; pur. 33,704,000 kWh; rev. \$1,761,538. (1910)*⁷

MONROEVILLE Mun. Elec., 2 S. Main St., 44847, 419/465-2922, Joe Gravenhorst, supt.; 780 met.; no gen.; pur. 19,495,800 kWh; rev. \$1,002,145. (1906)*⁵

MONTPELIER, Village of, 211 N. Jonesville St., 43543, 419/485-3693, Donald Olmstead, util. supt.; 1,902 met.; no gen.; pur. 36,153,000 kWh; rev. \$1,830,303. (1893)*⁷

NAPOLEON City of, Light and Power, 255 W. Riverview, Box 151, 43545, 419/592-4010, Dave Mullholand, elec. dist. supt.; 4,892 met.; no gen.; pur. 113,375,000 kWh; rev. \$6,274,000. (1894)*⁷

NEW BREMEN, Village of, 214 N. Washington St., 45869, 419/629-2827, Clarence B. Art, village admin.; 1,113 met.; no gen.; pur. 40,097,298 kWh; rev. \$1,924,522.*⁶

NEW KNOXVILLE, Bd. of Pub. Affairs, Box 246, 45871, 419/753-2160, Bob Scheblo, village admin.; 402 met.; no gen.*⁵

NEWTON FALLS, City of, Light & Power, 53 E. Church St., 44444, 216/872-7711, Ron Miller, supt.; 3,000 met.; no gen.; pur. 28 million kWh.*⁵

NILES, City of, 34 W. State St., 44446, 216/652-2622, Charias W. Burgess, supt. of utils.; 11,013 met.; no gen.; pur. 197,472,000 kWh; rev. \$10,624,631.*⁶

OAK HARBOR, Light and Water Dept., 146 Church St., Box 232, 43449, 419/898-3881, Charles Genzman, actg. supt.; 1,200 met.; no gen.; pur. 14,160,828 kWh; rev. \$1,098,111. (1914)*⁶

OVERLIN Mun. Light & Power System, 289 S. Professor St., 44074, 216/775-1531, Roger Merriman, dir.; 2,775 met.; gen. 11,910 kW, 3,760 kW oil (eng.), 8,150 kW dual-fuel (eng.); 5,472,126 kWh; pur. 73,044,000 kWh; rev. \$3,628,749. (1934)*⁷

OHIO CITY, Box 248, 45874, 419/965-2255, Floyd E. Spittler, util. supt.; 500 met.; no gen.; pur. 258,653,000 kWh; rev. \$307,201. (1930)*⁵

ORRVILLE, City of, Dept. of Pub. Utils., Box 126, 44667, 216/682-8715, Robert A. Nichols, dir. of utils.; 5,423 met.; 47,600 kW

coal (steam turbine), 215,196,000 kWh; pur. 14,149,000 kWh; rev. \$9,766,367. (1917)*⁷

PAINESVILLE, City of, 7 Richmond St., Box 601, 44077-0601, 216/352-9301, Thomas Green, elec. power supt.; 9,407 met.; gen. 51,500 kW coal (steam turbine), 113,424,000 kWh; pur. 352,643,300 kWh; rev. \$9,714,340. (1888)*⁶

PEMBERVILLE, Village of, 115 Main St., Box 109, 43450, 419/287-3384, Thomas Appelhaus, elec. supt.; 612 met.; no gen.; pur. 13,342,600 kWh; rev. \$669,000. (1914)*⁷

PIONEER Light & Water, State St., Box 335, 43554, 419/737-2614, T. E. Williams, supt.; 512 met.; no gen.; pur. 8.6 million kWh. (1912)*⁶

PIQUA Mun. Power, 123 Bridge St., 45356, 513/778-2077, H. E. Hastings, dir.; 9,055 met.; gen. 64,835 kW, 40,835 kW coal (steam turbine), 20,000 kW oil (combust. turbine); 155,788,690 kWh; pur. 60,114,000 kWh; rev. \$11,566,208. (1933)*⁷

PLYMOUTH, Village of, 25 Sandusky St., 44865, 419/687-4331, James Root, village admin.; 812 met.; no gen.; pur. 9 million kWh; rev. \$500,000. (1910)*⁷

PROSPECT Elec. Co., 139 N. Main St., Box 186, 43342, 614/494-2115, Kenneth R. Blue, village admin.; 616 met.; no gen.; pur. 7,721,645 kWh; rev. \$596,511. (1937)*⁶

REPUBLIC Bd. of Pub. Affairs, 219 Washington, Box 68, 44867, 419/585-5981, Nevin Reiter, bd. pres.; 300 met.; no gen.; pur. 3,039,829 kWh; rev. \$181,000.*⁶

RIPLEY Bd. of Pub. Affairs, 14 N. Third, 45167, 513/392-4377, Carl Judy, supt.; 1,170 met.; no gen.*⁵

ST. CLAIRSVILLE Mun. Utils., 100 Market, Box 537, 43950, 614/695-1410, Dennis Benish, supt.; 2,500 met.; no gen.*⁵

ST. MARYS, City of, 101 E. Spring St., 45885, 419/394-3303, Stan Davis, dir. of pub. serv. & safety, 2,517 met.; gen. 19,000 kW, 18,500 kW steam, 500 kW oil (comb. turbine); 53,123,680 kWh; pur. 8,448,377 kWh; rev. \$4,436,555. (1890)*⁵

SEVILLE Bd. of Pub. Affairs, 44 W. Main St., 44273, 216/769-2458, Harold Baker, supt.; 1,058 met.; no gen.; pur. 21,447,000 kWh; rev. \$1,386,000. (1914)*⁶

SHELBY, City of, City Hall, 23 E. Main St., 44875, 419/347-5131, Garland John Gates, mayor and dir. of pub.

serv.; 4,501 met.; gen. 40,500 kW, 37,500 kW coal (steam turbine), 3,000 kW dual-fuel (eng.), 92,128,000 kWh; pur. 1,029,000 rev. \$3,990,000. (1892)*⁷

SHILOH, Village of, 12 W. Main, Box 242, 44878, 419/896-2011, Wayne Baker, attendant; 299 met.; no gen.; pur. 4,011,058 kWh; rev. \$201,086.⁷

SOUTH VIENNA, Village of, 499 E. Main, 45369, Cathie Hurst, clerk, bd. of pub. affairs; 178 met.; no gen.; sales 2,711,987 kWh; rev. \$187,137.⁵

SYCAMORE, Bd. of Pub. Affairs, 132 N. Sycamore Ave., Box 297, 44882, 419/927-4262, Kenneth Ankney, bd. pres.; 497 met.; no gen.; pur. 11,689,150 kWh; rev. \$486,904. (1930)⁶

TIPP CITY Utils., 3 E. Main St., 45371, 513/667-8424 or 667-6305, Gregory Horn, city mgr.; 2,900 met.; no gen.; pur. 73,839,251 kWh; rev. \$3,129,000. (1897)⁷

TONTOGANY, Village of, 43565, 419/823-4465, Ralph Wires, pres., 190 met.; no gen.; pur. 2,471,200 kWh; rev. \$149,826. (about 1917).⁵

VERSAILLES Utils., 177 N. Center St., 45380, 513/526-4191, Ramon Nickol, supt. of utils.; no gen.; pur. 29,863,018 kWh; rev. \$1,580,612. (1901)*[†]

WADSWORTH, City of, 145 High St., 44281, 216/335-1521, William J. Lyren, dir. of pub. serv.; 8,011 met.; no gen.; pur. 151,969,000 kWh; rev. \$7,953,000. (1903)*⁷

WAPAKONETA, City of, Light & Power, 102 Perry St., 45895, 419/738-7713 or 7718, Lewis R. Knoch, supt.; 3,500 met.; no gen.; pur. 117,039,273 kWh; rev. \$6,490,081.*⁶

WAYNESFIELD Bd. of Pub. Affairs, 104 W. Perry St., Box 336, 45896, 419/568-4991, Ronald Zimmerman, util. supt.; 415 met.; no gen.; pur. 4,366,742 kWh; rev. \$305,671. (1911)⁷

WELLINGTON, Village of, Utils., 115 Willard Memorial Square, 44090, 216/647-3827, Robert A. Dupee, dir. of utils.; 1,886 met.; no gen. (1900)*⁷

WESTERVILLE, Elec. Div., 139 E. Broadway, 43081, 614/890-8540, Harold E. Clawson, opens. mgr.; 10,031 met.; no gen.; pur. 256,763,300 kWh; rev. \$14,429,196. (1898)*⁷

WHARTON Bd. of Pub. Affairs, Box 266, 43359, Roger Dean, supt.; 189

met.; no gen.; pur. 2,002,177 kWh; rev. \$120,000. (1935)⁷

WOODSFIELD Bd. of Pub. Affairs, 203 Roy St., 43793, 614/472-0884, Ellis Smithberger, supt.; 1,200 met.⁵

WOODVILLE, Village of, 219 W. Main, 43469, 419/849-2731, Robert Rickard, 825 met.; no gen.; pur. 8,232,600 kWh; rev. \$512,300.⁵

YELLOW SPRINGS, Village of, 314 Dayton St., 45387, 513/767-7202, Kent Bristol, village mgr.; 1,810 met.; no gen.; sales 36,000,000 kWh; rev. \$2,200,000.*⁵

OKLAHOMA

ALTUS, City of Elec. Dept., Box 8140, 73522, 405/477-1950, Melvin Sherwood, supt.; 9,925 met.; no gen.; pur. 131,829,000 kWh; rev. \$7,886,377. (1929)*[†]

ANADARKO Pub. Wks. Auth., 501 W. Va., Box 647, 73005, 405/247-2481, Robert Williamson, city mgr.; 3,200 met.; no gen.; pur. 55,207,000 kWh; rev. \$2,614,000.[†]⁵

BLACKWELL, City of, Mun. Auth., Box 350, 74631, 405/363-5490, D. P. Bishop, city mgr.; 4,016 met.; no gen.; pur. 83,525,166 kWh; rev. \$5,190,148. (1913)*[†]

BRAMAN, Town of, 308 Broadway, 74632, 405/385-2169, Devern L. Miller, city clk.; 200 met.; no gen.; rev. \$142,138. (1924)⁵

BURLINGTON, Utility Enterprise, Box 216, 73722, 405/431-2550, Ray Thompson, admin.; 110 met.; pur. 1,399,200 kWh. (1932)⁷

CHELSEA, Town of, Box 48, 74016, 918/789-3626, Alan Harris, elec. supt.; 1,040 met.; no gen.; pur. 10,400,000 kWh; rev. \$322,650. (1914)⁵

CLAREMORE, City of, Mun. Elec., 724 Ramm Rd., 74017, 918/341-2895, Bill Nichols, elec. dir.; 7,205 met.; no gen.; pur. 162,555,200 kWh; rev. \$6,202,162.[†]⁵

COLLINSVILLE Elec. Dept., 106 N. 12th, Box A, 74021, 918/371-2811, Don Tucker, mayor; 1,651 met.; no gen.⁵

COMANCHE, City of, 115 N. Second, 73529, 405/439-8832, Beryl Blair, elec. supt.; 900 met.; no gen. (1912)*⁵

COPAN Public Works Auth., Box 219, 74022, 918/532-4114, Jim Morain, supt. of utils.; 470 met.; no gen.; pur. 5,193,865 kWh; rev. \$234,064. (1936)*[†]⁷

CORDELL, City of, 101 E. Main St., 73632, 405/832-3825, Danny Lenaburg, elec. supt.; 1,750 met.; no gen.; pur. 24 million kWh; rev. \$173,219. (1910)⁵

CUSHING Power Plant, Seay & Oak St., 74023, 918/225-3035, Francis Fisher, supt.; 4,400 met.; gen. 15,785 kW dual-fuel (eng.), 35,595,000 kWh; pur. 35,595,000 kWh; rev. \$4,563,000. (1935)[†]⁵

DUNCAN Power & Light, Box 969, 73533, 405/252-0250, Don Howland, mgr.; 7,194 met.; no gen.; pur. 128,317,200 kWh; rev. \$6,822,000. (1921)*[†]⁷

EDMOND Pub. Works Auth., 315 SW 33rd St., 73084, 405/348-8830, Max Speegle, city mgr.; 18,982 met.; no gen.; pur. 354,380,736 kWh; rev. \$20,466,097. (1912)*[†]⁶

ELDORADO Light Dept., 107 S. Fourth, Box 190, 73537, 405/633-2245, Harold Conwell, supt.; 398 meters; no gen.*⁵

FAIRVIEW, City of, Box 386, 73737, 405/227-4416, Jim Luckett Jr., city mgr.; gen. 930 kW diesel; pur. 26,619,500 kWh; rev. \$1,872,326. (1908)⁷

FORT SUPPLY, Town of, Box 156, 73841, 405/766-3051, Robert Hickman, mayor; 204 met.; no gen.; pur. 2,454,000 kWh; rev. \$246,569.⁶

FREDERICK Public Works Auth., 200 W. Grand, 73542, 405/335-7571, Ray Long, trustee chmn.; 2,740 met.; no gen.; pur. 72,996,156 kWh; rev. \$2,997,225. (1917)*[†]⁶

GEARY Utils. Auth., 515 N. Broadway, Box 125, 73040, 405/884-5466, Harley Zweischer, mayor; 766 met.; no gen.; pur. 8,715,200 kWh; rev. \$564,637.⁶

GOLTRY Public Works Auth., Box 236, 73739, 405/496-2441, Jimmy D. Nichols, chmn.; 199 met.; no gen.; sales 3,572,038 kWh; rev. \$140,244.*[†]⁷

GRAND RIVER DAM AUTHORITY, Box 409, Vinita, 74301, 918/256-5545, William E. Mickey, gen. mgr.; 61 met.; gen. 1,010,000 kW coal (steam turbine), 464,000 kW hydro, 4,513,882,000 kWh; pur. 15,291,000 kWh; rev. \$107,105,583. (1935)*⁷

GRANITE, Town of, Box 116, 73547, 405/535-2116, John Fletcher, mayor; 575 met.; no gen.; pur.

10,452,662 kWh; rev. \$364,833. (1920)*[†]⁶

HOMINY Public Works Auth., Box 219, 74035, 918/885-2164, Paul D. O'Keefe, city mgr.; 1,705 met.; no gen.; pur. 21,347,200 kWh; rev. \$1,272,430. (1936)*[†]⁷

KAW CITY Municipality, 900 Morgan Sq. East, 74641, 405/269-2525, Carolyn Goodwin, city clk.; 143 met.; no gen.; pur. 1,749,869 kWh; rev. \$369,644. (before 1925)⁶

KINGFISHER Power Plant, 3rd & Bowman, 73750, 405/375-3797, Danny L. Mastalka, plant supt.; 2,627 met.; gen. 8,400 kW dual-fuel eng., 3,086,100 kWh; pur. 37,575,400; rev. \$3,768,000. (1900)*[†]⁷

LAVERNE Municipality, 7th & Okla. St., Box 430, 73848, 405/921-5121, Jay D. McCoy, supt.; 750 met.*[†]⁵

LEXINGTON, City of, Drawer D, 73051, 405/527-6123, Jesse Cooksey, supt.; 804 met.; no gen.; sales 63,255,000 kWh; rev. \$565,102. (1951)*[†]⁷

LINDSAY Public Works Auth.; 308 S.W. Second, 73052, 405/756-4900, Cliff Green, city mgr.; 1,900 met.; gen. 13,800 kW dual fuel eng., 4,959,800 kWh; pur. 16,564,192 kWh; rev. \$1,088,326. (1915)[†]⁵

MANCHESTER Light & Power Dept., Box 5, 73758, 405/694-2340, L. E. Toole, elec. supt.; 105 met.; no gen.⁵

MANGUM Mun. Elec. System, 201 N. Oklahoma St., 73554, 405/782-2256, Jerry Stowe, city mgr.; 2,147 met.; gen. 6,600 kW, 6,500 kW dual-fuel (eng.), 100 kW wind, 1,720,075 kWh; pur. 22,851,961 kWh; rev. \$2,274,514. (1929)*[†]⁶

MANITOU Light Dept., Box 8, 73555, 405/397-2241, Genevieve Meadows, city clk.; 308 met.⁵

MANNFORD Elec. Dept., Box 327, 74044, 918/865-4314, W. P. Adkins, pub. works dir.; 814 met.; no gen.; rev. \$891,333.⁵

MARLOW, City of, 115 N. 2nd, 73055, 405/658-5401, Brant C. Ball, city admin.; 2,484 met.; no gen.; pur. 30,424,800 kWh; rev. \$1,840,025.*⁷

MIAMI, City of, Box 1288, 74355, 918/542-6685, Bob Sherwood, gen. mgr.; 6,903 met.; no gen.; pur. 120,751,980 kWh; rev. \$5,784,000. (1910)⁷

OKLAHOMA (continued)

MOORELAND, Town of, Light & Power, Box 157, 73852, 405/994-5924, Wilbur Ramey, supt.; 705 met.; no gen.; sales 8,193,600 kWh; rev. \$299,433. (1908)*⁵

NEWKIRK Mun. Utils., Box 469, 74647, 405/362-2117, David Haynes, city mgr.; 1,123 met.; no gen. (1918)*⁵

OKEENE Light & Water Dept., 213 N. Main St., Drawer F, 73763, 405/822-3031, Tom Quithier, city admin.; 612 met.; no gen.; pur. 15,200,200 kWh; rev. \$609,518.*⁵

OLUSTEE, Town of, Box 330, 73560, 405/648-2288, Danny McCuiston, mayor; 300 met.; no gen.; sales 2,579,384 kWh; rev. \$193,995.*⁷

ORLANDO Public Works Authority, Box 27, 73073, 405/455-2403, Debbie Van Franken, town clk.; 90 met.; no gen.*⁷

PAWHUSKA, City of, Box 539, 74056, 918/287-3260, Harvey Massey, city mgr.; gen. 8,700 kW dual-fuel (eng.); 80,000 kWh; pur. 33,000,000 kWh. (1907)*⁷

PAWNEE Mun. Light & Water Dept., 614 Kansas St., Box 130, 74058, 918/762-2658, Alford Majors, mayor; 2,058 met.*⁷

PERRY, City of, Water & Light Dept., Drawer 798, 73077, 405/336-4241, Charles J. Bezdicsek, util. mgr. (1922)*⁵

PONCA CITY Mun., Box 1450, 74602, 405/765-6653, Charles L. Silvy, dir. of utils.; 15,875 met.; gen. 86,285 kW, 58,000 gas (steam turbine), 2,500 kW oil (eng.), 25,785 dual-fuel (eng.); 4,782,000 kWh; pur. 255,655,730 kWh; rev. \$16,731,994. (1914)*⁵

POND CREEK Water & Light Dept., Box 45, 73766, 405/532-6327, Richard Dillon, elec. supt.; 774 met.; no gen.; pur. 6 million kWh.*⁷

PRAGUE, City of, Box 648, 74864, 405/567-2279, Steve Behrnes, head lineworker; 1,197 met.; no gen.; pur. 18,076,000 kWh; rev. \$1,041,068. (1902)*⁵

PRYOR, Mun. Util. Bd., 6 N. Adair, Box 249, 74362, 918/825-2100, Bob Pierson, gen. mgr.; 4,004 met.; no gen.; pur. 67,301,600 kWh; rev. \$3,984,051. (1951)*⁷

PURCELL Pub. Works Auth., 230 W. Main, Box 71, 73080, 405/527-6561, Robert Collings, city mgr.; 3,000 met.; no gen.*⁵

RYAN Mun. Light & Water Plant, Box 489, 73565, 405/757-2406, Homer

Parker, elec. supt.; 500 met.; no gen.; pur. 6,515,711 kWh; rev. \$252,413.*⁵

SALLISAW, City of, 111 N. Elm, 74955, 918/775-6241, Wes Keith, elec. formn.; 3,381 met.; no gen.; pur. 78,074,400 kWh; rev. \$3,697,000. (1914)*⁷

SKIATOOK, Town of, Box 399, 74070, 918/396-2797, Monte Gondles Jr., admin.; 2,080 met.; no gen.; pur. 32,344,000 kWh; rev. \$1,734,971. (1951)*⁷

SOUTH COFFEYVILLE Mun. Elec. System, Drawer C, 74072, 918/255-6045, Jesse Butcher, mayor; 375 met.; no gen.; pur. 3 million kWh; rev. \$181,284.*⁵

SPIRO Mun. Improvement Auth., 131 S. Main St., 74959, 918/962-2470, Stearl Nelson, mayor; 1,163 met.; no gen.; pur. 12,977,776 kWh; rev. \$554,752.*⁷

STILLWATER Utils. Auth., Box 1449, 74074, 405/372-0025, Joe Jackson, dir. elec. utils.; 14,562 met.; 24,000 kW gas (steam turbine), 30,000,000 kWh; pur. 290,000,000 kWh; rev. \$21,378,623. (1901)*⁷

STILWELL Util. Dept., Box 840, 74960, 918/696-3400, Page G. Arnall, supt. util.; no gen.; pur. 39,315,600 kWh; rev. \$1,740,828. (1952)*⁷

STROUD Water & Light Dept., Box 500, 918/968-2890, Joan Boyer, mgr.; 1,383 met.; no gen.; pur. 20,460,000 kWh; rev. \$1,316,146. (1927)*⁵

TAHLEQUAH Pub. Wks. Auth., Box 29, 74465, 918/456-2564, J. M. Hicks, gen. mgr.; 3,744 met.; no gen.; pur. 87,192,300 kWh; rev. \$4,503,500. (1935)*⁵

TECUMSEH Util. Authority, 114 N. Broadway, 74873, 405/598-2188, Randy Swinson, city mgr.; 2,176 met.; no gen.*⁵

TOKAWA, City of, Box 467, 74653, 405/628-2508, Lonnie Bray, city mgr.; 1,800 met.; no gen. (4,200 kW standby). (1925)*⁵

WAGONER Pub. Wks. Auth., 231 Church St., Box 406, 74467, 918/485-2554, Alva Smith, mgr.; 3,500 met.; no gen.*⁵

WALTERS, City of, Box 485, 73572, 405/875-3337, Buddy Veltema, city mgr.; 1,377 met.; no gen.; pur. 17,704,633 kWh; rev. \$1,015,641. (1923)*⁷

WATONGA Water & Light System, 115 Weigle St., Box 280, 73772, 405/623-7354, Kenneth Marshall, supt.; 2,282 met.; no gen.; pur.

28,771,200 kWh; rev. \$2,492,394. (1907)*⁵

WAYNOKA Light & Power, 201 E. Cecil St., 73860, 405/824-2261, James Ferguson, elec. supt.; 848 met.; no gen.; pur. 9,571,200 kWh.*⁵

WETUMKA Mun. Auth., 202 N. Main, 74883, 405/452-3251, Joel Heathcott, mgr.; 825 met.; no gen.; pur. 9,345,000 kWh; rev. \$975,000. (1925)*⁵

WYNNEWOOD Water & Light Dept., 207 W. Robt. S. Kerr, 73098, 405/665-4141, Don Harmon, supt.; 1,250 met.*⁵

YALE, City of, 209 N. Main, 74085, 918/387-2405, Chuck Ramsey, elec. supt.; 744 met.; no gen.; pur. 8,643,092 kWh; rev. \$541,462.*⁷

OREGON

ASHLAND, City of, 20 E. Main St., 97520, 503/482-3211, Brian Almquist, city admin.; 6,824 met.; gen. 750 kW hydro; 3,168,000 kWh; pur. 128,860,000 kWh; rev. \$5,123,553. (1909)*⁷

BANDON, City of, Box 67, 97411, 503/347-2437, Ben M. McMakin, city mgr.; 2,367 met.; no gen.; pur. 48,626,880 kWh; rev. \$1,881,286. (1921)*⁷

CANBY Util. Bd., 154 N.W. First Ave., Box 470, 97013, 503/266-1156, Donald Godard, mgr.; 3,464 met.; no gen.; sales 96,466,100 kWh; rev. \$3,546,177. (1969)*⁷

CASCADE LOCKS, City of, Box 308, 97014, 503/374-8484, Ken Hobson, city admin.; 542 met.; no gen.; pur. 25,739,001 kWh; rev. \$948,851. (1939)*⁷

CENTRAL LINCOLN PEOPLE'S UTILITY DISTRICT, Box 1126, Newport, 97365, 503/265-3211, Roland Nuetzman, gen. mgr.; 26,272 met.; no gen.; pur. 1,287,049,609 kWh; rev. \$37,101,831. (1943)*⁷

CENTRAL OREGON PEOPLE'S UTILITY DISTRICT, 1355 N.W. Harmon Blvd., Bend, 97701, 503/382-5343, Norman Schultz, chmn.; (PUD is not yet operating.) (1940s)*⁶

CLATSKANIE PEOPLE'S UTILITY DISTRICT, Box 216, Clatskanie, 97016, 503/728-2163, Liston Darby, gen. mgr.; 3,636 met.; no gen.; pur. 715,544,600 kWh; rev. \$16,075,306. (1940)*⁷

COLUMBIA RIVER PEOPLE'S UTILITY DISTRICT, Box 1193, St. Helens,

97051, 503/397-1844, Fergus Pilon, gen. mgr.; 6,940 met.; no gen.; pur. 214,691,191 kWh; rev. \$9,323,465. (1984)*⁷

DRAIN, City of, Elec. Util., Box 158, 97435, 503/836-2417, Bill Ewing, city admr.; 613 met.; no gen.; pur. 24,429,250 kWh; rev. \$914,909. (1940)*⁷

EMERALD PEOPLE'S UTILITY DISTRICT, 5001 Franklin Blvd., Eugene, 97403, 503/746-1583, Lon Topaz, gen. mgr.; 13,547 met.; no gen.; pur. 338,867,274 kWh; rev. \$13,980,736. (1983)*⁷

EUGENE Water & Elec. Bd., 500 E. 4th Ave., Box 10148, 97440, 503/484-2411, Jean Reeder, gen. mgr.; 63,613 met.; gen. 111,500 kW hydro; 439,633,200 kWh; pur. 1,725,232,440 kWh; rev. \$60,240,089. (1911)*⁷

FOREST GROVE, City of, Box 326, 97116, 503/357-7151, Doug Sleeth, dir., light and power dept.; 6,604 met.; no gen.; pur. 183,090,285 kWh; rev. \$4,242,703. (1896)*⁷

McMINNVILLE Water & Light Dept., 130 N. Baker St., 97128, 503/472-6158, Norm Scott, actg. gen. mgr.; 8,425 met.; no gen.; pur. 394,429,185 kWh; rev. \$10,072,348. (1889)*⁷

MILTON-FREEWATER City Light & Power, Box 6, 97862, 503/938-5531, George N. McRae, elec. supt.; 4,211 met.; no gen.; pur. 117,671,960 kWh; rev. \$2,472,000. (1890)*⁷

MONMOUTH, City of, 151 W. Main, 97361, 503/838-0722, Stan Kenyon, city mgr.; 2,574 met.; no gen.; pur. 46,634,900 kWh; rev. \$1,639,978. (1940)*⁷

NORTHERN WASCO COUNTY PEOPLE'S UTILITY DISTRICT, 401 Court St., Box 621, The Dalles, 97058, 503/296-2226, Harold Haake, mgr.; 8,621 met.; no gen.; pur. 187,001,295 kWh; rev. \$7,124,536. (1939)*⁷

SPRINGFIELD Util. Bd., 250 North A St., 97477, 503/746-8451, Steve L. Loveland, gen. mgr.; 20,849 met.; no gen.; pur. 662,217,608 kWh; rev. \$20,402,696. (1950)*⁷

TILLAMOOK PEOPLE'S UTILITY DISTRICT, Box 433, Tillamook, 97141, 503/842-2535, Ron L. Saville, gen. mgr.; 14,550 met.; no gen.;

pur. 324,695,000 kWh; rev. \$12,847,975. (1932)*†⁶

PENNSYLVANIA

BERLIN Mun. Elec. Sys., 700 North St., 15530, 814/267-3837, Kerry B. Claycomb, exec. bor. secy.; 1,000 met.; no gen.; sales 12,874,000 kWh; rev. \$922,572.⁵

BLAKELY Borough Elec. Light Co., 1439 Main St., Peckville, 18452, 717/383-3340, Harold J. McCusker Jr., sec./treas./mgr.; 2,785 met.; no gen.; pur. 31,810,000 kWh; rev. \$2,502,000. (1895)⁷

CATAWISSA Borough, 118 N. 3rd St., Box 44, 17820, 717/356-2561, Theodore Long, council pres.; 804 met.; no gen.; sales 9,257 kWh; rev. \$717,255. (1928)⁷

CHAMBERSBURG, Borough of, Elec. Dept., 100 S. Second St., 17201, 717/264-5151, Julio D. Lecuna, bor. mgr.; 8,327 met.; gen. 11,000 kW steam turbine, 4,100 kW combust. eng.; 453,200 kWh; pur. 192,460,000 kWh; rev. \$8,356,386. (1893)*†⁷

DUNCANNON Borough, 428 High St., Box 9, 17020, 717/834-4311, Thomas Evans, borough mgr.; 810 met.; no gen.; sales 6,530,811 kWh; rev. \$431,367. (1898)⁵

EAST CONEMAUGH Mun. Elec. Dept., 355 First St., Borough Bldg., 15909, 814/539-0193, Bernard Waltz, supvr.; 808 met.; no gen.; pur. 5,235,200 kWh; rev. \$422,304. (approx. 1900)⁵

ELLWOOD CITY, Borough of, 525 Lawrence Ave., 16117, 412/758-5576, Robert McClelland, supt.; 4,211 met.; no gen.; pur. 40,424,000 kWh; rev. \$2,809,562. (1901)⁵

EPHRATA Power & Light, 114 E. Main St., 17522, 717/733-1277, L. Victor Dickinson, bor. mgr.; 5,270 met.; no gen.; pur. 87,000,000 kWh; rev. \$5,685,000. (1902)*†⁷

GIRARD, Borough Light Plant, 34 Main St. West, 16417, 814/774-9683, R. H. Gebhart, bor. mgr.; 1,278 met.; no gen.; pur. 21,742,406 kWh; rev. \$1,679,000. (1900)⁷

GOLDSBORO E.L.H. & P., Box 14, Etters, 17319, 717/938-3456, Lee V. Fishel, bor. mgr.; 229 met.; no gen.; pur. 1,870,650 kWh; rev. \$138,000. (1913)⁷

GROVE CITY Borough Elec. Dept., 315 Park Street, 16127,

412/458-7070, Donald W. McIntire, supt.; 2,810 met.; no gen.; pur. 42,004,800 kWh; rev. \$3,253,288. (1908)*†⁷

HATFIELD, Borough of, Electric, Box 190, 19440, 215/855-0781, Leonard T. Perrone, mgr.; 1,253 met.; pur. 14,917,251 kWh; rev. \$1,281,397. (1930)⁸

HOOVERVILLE Borough Electric, Box 176, 15936, 814/798-8001, Judy Shaffer, sec.; 379 met.; no gen.; pur. 2,930,400 kWh; rev. \$223,572.⁷

KUTZTOWN, Borough of, 211-213 W. Main St., 19530-1697, 215/683-6131, Alan J. Darion, chmn., elec. comm.; 1,960 met.; no gen.; pur. 46,573,965 kWh; rev. \$3,349,640. (1904)⁵

LANSDALE, Borough of, 421 W. Main St., 19446 215/368-1691, Edward W. Olander, supt. elec. dept.; 7,578 met.; no gen.; pur. 115,350,000 kWh; rev. \$9,468,288. (1902)*†⁵

LEHIGHTON Borough Light & Power Dept., Box 29, Municipal Bldg., 18235, 215/377-4002, Mortimer L. Smedley Jr., mgr.; 2,938 met.; no gen.; pur. 39,015,827 kWh; rev. \$2,266,943. (1940)*†⁶

LEWISBERRY, Borough of, Box 172, 17339, 717/938-6446, Sandra Griffith, vic pres. of council; 141 met.⁷

MIDDLETOWN Borough of, 60 West Emaus St., 17057, 717/948-3030, James C. Harper, admin. ofcr.; 3,673 met.; no gen.; pur. 70,493,585 kWh; rev. \$1,641,168. (1906)*†⁶

MIFFLINBURG, Borough of, Elec. Dept., 333 Chestnut St., 17844, 717/966-1013, George M. Streese, bor. mgr.; 1,614 met.; no gen.; pur. 34,341,000 kWh; rev. \$2,062,000. (1925)⁵

MONT ALTO, Borough of, Mun. Elec. Dept., Box 427, 17237, 717/749-5808, Lorraine L. Bumbaugh, bor. sec.-treas.; 484 met.; no gen.; pur. 4 million kWh; rev. \$240,920. (1918)⁵

NEW WILMINGTON Borough, 140 W. Neshannock Ave., 16142, 412/946-8167, Edward Garrett, borough supt.; 730 met.; no gen.; pur. 11,985,000 kWh; rev. \$882,562.⁵

OLYPHANT Borough Elec. Plant, Willow Ave., 18447, 717/489-3211, John Cecere, plant frmn.; 2,086 met.; no gen.; pur. 20,005,100 kWh; rev. \$1,434,375.⁵

PENNSYLVANIA STATE UNIVERSITY, Room 417, Old Main Bldg., University Park, 16802, 814/865-1409, G.W. Schimmel, dir. elec. ops.; 370 met.; gen. 6,500 kW coal (steam);

20 million kWh; pur. 111 million kWh. (1893).⁵

PERKASIE Borough of, 311 S. 9th St., 18944, 215/257-5065, John Hoishik, bor. mgr.; 2,972 met.; no gen.; sales 8,696,000 kWh; rev. \$2,447,314. (1900)*†⁶

PITCAIRN Mun. Elec. Light Plant, 582 6th St., 15140, 412/372-6500, George H. Myers, mgr.; 2,000 met.; no gen. (1901)*†⁵

QUAKERTOWN, Borough of, Elec. Dept., 15 - 35 N. 2nd St., Box 727, 18951, 215/536-5001, David L. Woglom, bor. mgr.; 3,954 met.; no gen.; pur. 84,119,000 kWh; rev. \$4,578,651. (1904)⁶

ROYALTON Borough, Burd and Dock Sts., Middletown, 17057, 717/944-4831, Tildon J. Sides, chmn., elec. committee; 366 met.; no gen.; pur. 2,270,824 kWh; rev. \$192,452. (1930)⁷

ST. CLAIR Borough Elec. Light Dept., 39 N. Second St., 17970, 717/429-0640, Donald C. Hosler, bor. supt.; 1,928 met.; no gen.; pur. 12,000,000 kWh; rev. \$1,022,646. (1922).⁷

SCHUYLKILL HAVEN Borough, 39 Dock St., 17972, 717/385-2841, 2,757 met.; no gen.; pur. 42,628,333 kWh; rev. \$2,551,053.⁶

SMETHPORT, Borough Elec. Dept., 412 W. Water St., 16749, 814/887-5815, William H. Covert Jr., supt.; 1,130 met.; no gen.; pur. 10,764,000 kWh; rev. \$758,017.⁷

SUMMERHILL Borough Mun. Light Plant, Box 289, 15958, 814/495-5610, Janet S. Thomas, sec.-treas.; 300 met.; no gen.; pur. 2,397,700 kWh; rev. \$197,385.⁵

WAMPUM Borough Elec. Dept., Box 65, 16157, 412/535-8241, Charles Kelly, maint. supt.; 370 met.; no gen.; pur. 3,161,700 kWh; rev. \$215,161. (1910)⁵

WATSONTOWN Borough Elec. Dept., Fourth and Main Sts., Box 273, 17777, 717/538-1000, David L. Smith, mgr.; 1,025 met.; no gen.; pur. 13,038,000 kWh; rev. \$896,113.⁵

WEATHERLY Borough, 10 Wilbur St., 18255, 717/427-8640, Beverly E. Knepper, mgr.; 960 met.; no gen.; pur. 15,949,000 kWh; rev. \$1,093,842.*†⁷

ZELIENOPLE Mun. Elec., 111 W. New Castle St., 16063, 412/452-6610, Dennis Dambaugh, supt.; 1,827 met.; no gen.; pur. 22,022,400 kWh; rev. \$1,466,000.⁷

RHODE ISLAND

PASCOAG FIRE DISTRICT, 33 S. Main St., Pascoag, 02859, 401/568-6222, Howard C. Peters, gen. mgr.; 3,407 met.; no gen.; pur. 29,015,800 kWh; rev. \$2,460,251. (1887)⁷

SOUTH CAROLINA

ABBEVILLE Water & Elec. Plant, Box 639, 29620, 803/459-5058, M. G. Moorhead, utils. dir.; 3,132 met.; gen. 3,724 kW, 2,600 kW hydro, 1,124 kW oil (eng.), 3,708,820 kWh; pur. 43,598,182 kWh; rev. \$2,687,343. (1905)*†⁷

BAMBERG Bd. of Pub. Works, Box 300, 29003, 803/245-5128, Bruce G. Ellis, gen. mgr.; 1,600 met. (1905)⁵

BENNETTSVILLE, City of, Box 1036, 29512, 803/479-9001, John Graham, supt. of utils.; 4,674 met.; no gen.; pur. 76,982,000 kWh; rev. \$3,973,525. (1903)⁶

CAMDEN, City of, 1000 Lyttleton St., 29020, 803/432-2421, Charles Litchfield, util. dir.; 8,800 met.; no gen.; pur. 136,795,000 kWh; rev. \$8,599,000. (1947)*†⁶

CLINTON, City of, Combined Util. System, Drawer 748, 29325, 803/833-1350, Steven L. Harrell, city mgr.; 4,095 met.; no gen.; pur. 105,081,655 kWh; rev. \$6,335,706. (1907)*†⁷

DUE WEST, Town of, Box 278, 29639, 803/379-2385, C.H. Hawthorne, supt.; 350 met.; no gen.; pur. 7 million kWh; rev. \$502,283. (1920)⁶

EASLEY Combined Util. System, 111 Pineview Dr., Box 605, 29640, 803/859-5164, Richard S. Hale, mgr.; 8,661 met.; no gen.; pur. 172,158,931 kWh; rev. \$9,661,817. (1910)*†⁷

GAFFNEY Bd. of Pub. Works, 210 E. Frederick St., Box 64, 29342, 803/487-7171, Houston F. Crater Jr., mgr.; 6,305 met.; no gen.; pur. 139,463,137 kWh; rev. \$6,410,130. (1907)*†⁵

GEORGETOWN Light & Water Dept., Box 1146, 29440, 803/546-5632, W. L. Hewitt, util. mgr.; 4,500 met.; no gen. (1920)⁵

GREENWOOD Comm. of Pub. Works, Box 549, 29648, 803/223-8571, Howard Parker, chmn.; 11,013 met.;

SOUTH CAROLINA (continued)

no gen.; pur. 203,214,961 kWh; rev. \$10,322,431. (1896)*†

GREER Comm. of Pub. Works, Box 216, 29652, 803/877-0171, Ken Smith; 7,020 met.; no gen.; pur. 128,267,446 kWh; rev. \$5,956,600. (1914)*†

LAURENS Comm. of Pub. Works, Box 349, 29360, 803/984-0481, Coleman F. Smoak Jr., gen. mgr.; 4,897 met.; no gen.; pur. 86,207,531 kWh; rev. \$4,412,550. (1922)*†

MCCORMICK Comm. of Pub. Works, 214 Calhoun St., Box 656, 29835, 803/465-2224, Benjamin Lewis, actg. supt.; 912 met. (1926)*

NEWBERRY, City of, Box 538, 29108, 803/276-0471, Steve D. Reeves Jr., utils. dir.; 4,540 met.; no gen.; pur. 117,916,390 kWh; rev. \$6,451,084. (1923)*

ORANGEBURG Dept. of Pub. Utils., 195 Russell St., 29115, 803/534-2821, Ted M. Johnson Jr., mgr.; 18,429 met.; no gen.; pur. 548,065,600 kWh; rev. \$33,240,300. (1898)*

PROSPERITY, Town of, McNeary St., Box 36, 29127, 803/364-2622 John Taylor, pub. works dir.; 517 met.; no gen.; sales 7,231,082 kWh; rev. \$402,892. (1920)*

ROCK HILL, City of, Box 11706, 29730, 803/329-5513, C. A. Owen, utils. dir.; 17,907 met.; no gen.; pur. 385,942,370 kWh; rev. \$25,170,625. (1910)*†

SENECA Light & Water Plant, Box 4773, 29679, 803/882-8359, H. Jerry Balding, dir. of utils.; 4,760 met.; no gen.; pur. 103,487,872 kWh; rev. \$6,073,498. (1907)*

SOUTH CAROLINA PUBLIC SERVICE AUTHORITY (Santee Cooper), One Riverwood Drive, Moncks Corner, 29461, 803/761-8000, William C. Mescher, pres.; 75,432 met.; gen. 2,769,470 kW, 80,000 kW oil (steam turbine), 2,324,000 kW coal (steam turbine), 330,390 kW nuclear, 229,560 kW (combust. turbine), 134,600 kW hydro; 10,755,956,000 kWh; pur. 457,246,160 kWh; rev. \$451,536,989. (1934)*†

UNION, City of, Box 886, 29379, 803/427-6282, T. D. Sherbert Jr., dir. of utils.; 6,431 met.; no gen.; pur. 99,688,800 kWh; rev. \$5,349,310. (1897)*

WESTMINSTER Comm. of Pub. Works, Box 216, 29693, 803/647-5071 or 803/647-2026, Gary Cobb, supt.; 1,483 met.; no gen.*

WINNSBORO, Town of, Box 209, 29180, 803/635-4943, L.C. Greene;

2,740 met.; no gen.; rev. \$3,441,017. (1910)*

SOUTH DAKOTA

ARLINGTON Mun. Light Plant, 57212, 605/983-5911, Curt Tuttle, supt.; 496 met.; gen. 800 kW eng.*†

AURORA, City of, Box 112, 57002, 605/693-3752, Elaine Waples, fin. off.; 228 met.; no gen.; pur. 3,130,183 kWh; rev. \$173,803. (1968)*†

BADGER, Town of, Box 123, 57214, 605/983-5385, Myron Anderson, pres.; 78 met.; no gen.; pur. 1,219,817 kWh; rev. \$30,109. (1956)*

BERESFORD, City of, 101 N. Third St., 57004, 605/763-2008, Richard Satiroff, supt.; 950 met.; no gen. (1950)*†

BIG STONE CITY Mun. Elec. Dept., 57216-0246, Box 246, 605/862-8121, Mary Jane Lempka, town clerk; 395 met.; pur. 12,127,392 kWh; rev. \$324,553.*†

BROOKINGS Mun. Utils., 525 Western Ave., Box 588, 57006, 605/692-6325, Craig Osvog, gen. mgr.; 6,224 met.; no gen.; pur. 140,832,072 kWh; rev. \$5,505,872. (1899)*†

BRYANT, City of, Box 145, 57221, 605/628-2931, Michaela Ludwig, mayor; 249 met.; no gen.; pur. 3,184,676 kWh; rev. \$81,491. (1958)*

BURKE Mun. Light & Power, Box 312, 57523, 605/775-2692, Richard N. Bailey, supt. of utils.; 439 met.; no gen.; pur. 6,561,616 kWh; rev. \$246,757. (1936)*†

COLMAN, City of, Box 54, 57017, 605/534-3611, Svend Iversen, mayor; 255 met.; no gen. (1965)*†

ELK POINT, City of, Box 28, 57025, 605/356-2631, Robert L. Eslick, supt.; 610 met.; no gen.; pur. 10,426,724 kWh; rev. \$632,073. (1918)*

ESTELLINE, City of, Box 278, 57234, 605/873-2388, Donald A. Seeklander, city engr.; 330 met.; no gen.; sales 6,380,554 kWh; rev. \$245,257.*†

FAITH Mun. Elec. Co., Box 368, 57626, 605/967-2261, Donn Dupper, supt.; 245 met.; no gen.*†

FLANDREAU, City of, 136 Second Ave. East, 57028, 605/997-2848, Don Johnston, supt., light & power; 1,260 met.; no gen.; pur. 15,851,000 kWh; rev. \$819,136. (1938)*†

FORT PIERRE Mun. Elec., Box 700, 57532, 605/223-2508, James Hauge, city supt.; 830 met.; no gen.; pur. 14,673,853 kWh; rev. \$569,462. (1900)*†

GROTON, City of, Light Dept., Box 587, 57445, 605/397-2690, David Anderson, supt.; 559 met.; no gen. (1921)*†

HECLA Light & Power Plant, 57446, 605/994-2333, Delwyn Tisher, supt.; 250 met.; gen. 200 kW eng.; pur. 3,715,288 kWh.*†

HOWARD, City of, Box 705, 57349, 605/772-4391, Alan Adler, elec. supt.; 637 met.; no gen.; pur. 10,401,847 kWh; rev. \$358,620.*†

LANGFORD, Town of, Box 191, 57454, 605/493-6772, Bruce A. Likness, town pres.; 199 met.; no gen.; pur. 2,424,039 kWh; rev. \$93,399. (1935)*

MADISON Mun. Elec. Util., 116 W. Center St., 57042, 605/256-4586, Virgil Schoeberl, supt.; 3,120 met.; pur. 55,000,000 kWh; rev. \$1,757,944. (1922)*†

McLAUGHLIN, City of, Box 392, 57642, 605/823-4428, Ron Dumdei, mayor; 450 met.; no gen.; rev. \$224,049. (1969)*†

MILLER, Mun. Elec., 120 W. Second St., 57362, 605/853-2705, Merle Dirksen, elec. supt.; 978 met.; no gen.; pur. 24,216,450 kWh. (1904)*

ONIDA, City of, Mun. Light & Water, Box 72, 57564, 605/258-2231, Jerry Culey, supt.; 402 met.; no gen.; pur. 6,000,000 kWh; rev. \$340,000. (1926)*

PARKER, City of, Box 265, 57053, 605/297-4453, Dean Nielsen, fin. officer; 560 met.; gen. 1,005 kW eng.; rev. \$255,586.*†

PICKSTOWN, Town of, Box 19, 57367, 605/487-7844, Russell Bywater, proj. mgr.; 60 met.; no gen. (Title to utility passed in 1986 to town from U.S. Corps of Engineers which will operate and maintain the system into 1988.)*

PIERRE, Mun. Elec., Box 1253, 57501, 605/224-7341, Dave Padgett, dir. pub. wks.; 5,599 met.;

no gen.; pur. 128,325,385 kWh; rev. \$4,125,048. (about 1900)*†

PLANKINTON Light & Power Plant, Box 517, 57368, 605/942-7767, Edwin Lutz, light supt.; 367 met.; no gen. (1936)*†

SIOUX FALLS Municipal Light & Power, 2000 N. Minnesota Ave., 57104, 605/339-7150, Richard Willer, util. dir.; 1,916 met.; no gen.; pur. 58,847,540 kWh; rev. \$2,229,331. (1905)*

TYNDALL Light & Water Plant, Box 29, 57066, 605/589-3481, Alfred J. Novotny, supt.; 620 met.; no gen.; pur. 10,172,503 kWh; rev. \$371,201. (1911)*†

VERMILLION, City of, 25 Center St., 57069, 605/624-5641, James W. Antonen, city mgr.; 3,309 met.; gen. 2,340 kW oil (combust. eng. standby), pur. 37,488,842 kWh; rev. \$1,744,875. (1915)*†

VOLGA, City of, 202 Kasan Ave., 57071, 605/627-9113, Doug Lauck, lineman supt.; 633 met.; no gen.; pur. 13,863,309 kWh; rev. \$536,000. (1941)*†

WATERTOWN Mun. Utils. Dept., 901 Fourth Ave., S.W., 57201, 605/886-5733, Robert P. Swanson, supt.; 9,082 met.; no gen.; pur. 166,427,978 kWh; rev. \$5,262,377. (1923)*†

WESSINGTON SPRINGS Mun. Light & Power, Box 443, 57382, 605/539-1691, Roger Larson, elec. supt.; 640 met.; no gen.; pur. 9,255,010 kWh; rev. \$420,976. (1914)*†

WHITE, City of, Box 682, 57276, 605/629-8161, Arnold deBlonk, 221 met.; no gen.; pur. 3,070,098 kWh; rev. \$248,634. (1978)*†

WINNER, City of, 217 E. Third St., 57580, Al Fisher, supt.; 1,930 met.; no gen.; pur. 34,971,979 kWh; rev. \$1,268,110. (1948)*†

(Oglala Sioux Tribal Council, Pine Ridge, S.D., and Oglala Sioux Housing Authority, Pine Ridge, S.D., own electric systems which are operated under lease agreements by Nebraska Public Power District, Columbus, Neb.)

TENNESSEE

(All local publicly owned electric utilities in Tennessee are distributors of Tennessee Valley Authority power and purchase all of their power requirements from TVA.)

ALCOA Util. Bd., 264 N. Rankin Rd., 37701, 615/982-2533, Larry B. Stargel, power mgr.; 16,752 met.; no gen.; pur. 359,650,560 kWh; rev. \$17,167,624. (1956)*⁷

ATHENS Util. Bd., 100 Englewood Rd., Box 689, 37303, 615/745-4501, George H. Usry, gen. mgr.; 11,685 met.; no gen.; pur. 422,374,182 kWh; rev. \$19,812,343. (1939)*[†]

BENTON COUNTY BD. OF PUBLIC UTILITIES, Box 445, Camden, 38320, 901/584-8251, Glenn C. Pafford, mgr.; 7,593 met.; no gen.; pur. 182,095,945 kWh; rev. \$8,844,594. (1940)⁷

BOLIVAR Elec. Dept., 815 Tennessee St., Box 188, 38008, 901/658-5257, Beryl F. Williams, gen. mgr.; 9,024 met.; no gen.; pur. 192,641,158 kWh; rev. \$9,327,659. (1936)*[†]

BRISTOL Elec. System, Box 549, 37621, 615/968-1526, R. Michael Browder, gen. mgr.; 25,602 met.; no gen.; pur. 678,090,672 kWh; rev. \$32,762,848. (1945)*[†]

BROWNSVILLE Util. Dept., Box 424, 38012, 901/772-1213, John F. Sharpe, mgr.; 4,410 met.; pur. 150,385,423 kWh; rev. \$7,496,859. (1939)*⁷

CARROLL COUNTY Electrical Dept., Box 527, Huntingdon, 38344, 901/986-8284, J. B. McMillin, mgr.; 13,499 met.; no gen.; pur. 310,584,599 kWh; rev. \$15,796,814. (1938)*⁷

CHATTANOOGA Elec. Power Bd., 537 Cherry St., 37402, 615/757-1369, Kenneth S. Baxter, gen. mgr.; 132,722 met.; no gen.; pur. 5,058,386,368 kWh; rev. \$254,973,651. (1935)*[†]

CLARKSVILLE Dept. of Elec., 2021 Guthrie Hwy., Box 1007, 37041-1007, 615/648-8151, Dalton B. Smith, gen. mgr.; 23,110 met.; pur. 572,298,585 kWh; rev. \$29,136,415. (1939)*⁷

CLEVELAND Util., 2450 Guthrie Dr. N. W., Box 2730, 37311, 615/472-4521, M.E. Beavers, gen. mgr.; 20,222 met.; no gen.; pur. 359,020,800 kWh; rev. \$17,748,891. (1939)*⁷

CLINTON Util. Bd., Box 296, 37716, 615/457-9232, Byron H. Hale, gen. mgr.; 21,402 met.; no gen.; pur. 466,981,490 kWh; rev. \$23,012,738. (1939)*⁷

COLUMBIA Power System, Box 379, 38404, 615/388-4833, William M. Carroll, gen. mgr.; 16,108 met.; no gen.; pur. 399,620,281 kWh; rev. \$19,966,492. (1939)*⁴

COOKEVILLE Elec. Dept., 45 E. Broad, Box 998, 38503-0998, 615/526-9591, W. R. Holland, mgr.; 10,381 met.; pur. 366,584,888 kWh; rev. \$18,818,815. (1904)*⁷

COVINGTON Elec. System, Box 488, 38019, 901/476-7104, William C. Moss, gen. mgr.; 3,131 met.; pur. 131,815,528 kWh; rev. \$6,126,660. (1904)*⁷

DAYTON, City of Elec. Dept., Box 226, 37321, 615/775-1817, Paul Hill, supt.; 6,546 met.; no gen.; pur. 172,070,884 kWh; rev. \$7,920,386.⁷

DICKSON Elec. Dept., 121 S. Main St., Box 627, 37055, 615/446-9051, Ernest R. Brown, mgr.; 19,443 met.; pur. 413,272,011 kWh; rev. \$21,841,388. (1936)⁷

DYERSBURG Elec. System, Box 664, 38025-0664, 901/285-2941, J. P. Crawford, mgr.; 10,170 met.; pur. 389,387,120 kWh; rev. \$19,148,025. (1902)*[†]

ELIZABETHTON Elec. System, Box 790, 37643, 615/542-2101, Frank L. Curde, mgr.; 19,591 met.; no gen.; pur. 440,099,374 kWh; rev. \$20,290,474. (1945)*⁷

ERWIN Util., 244 Love St., 37650, 615/743-6191, Howard C. Brown, mgr.; 7,024 met.; no gen.; pur. 180,440,594 kWh; rev. \$8,479,477. (1945)⁷

ETOWAH Util. Dept., Drawer N, 37331, 615/263-9441, Doug Swayne, gen. mgr.; 4,249 met.; no gen.; pur. 124,810,111 kWh; rev. \$5,653,102. (1937)*⁷

FAYETTEVILLE Elec. System, Drawer E., 37334, 615/433-1522, Walter J. Szelich Jr., mgr.; 13,585 met.; no gen.; pur. 296,328,514 kWh; rev. \$14,921,253. (1937)*⁷

GALLATIN, Dept. of Elec., Box 1555, 37066, 615/452-5152, William Draper, supt.; 8,506 met.; no gen.; pur. 365,782,465 kWh; rev. \$18,356,238. (1939)*[†]

GREENEVILLE Light & Power System, Box 1690, 37744, 615/639-8121, Robert C. Lay, mgr.; 25,707 met.; no gen.; pur. 29,918,986 kWh; rev. \$34,659,906. (1945)*⁷

HARRIMAN Util. Bd., Box 434, 37748, 615/882-3242, Henry D. Grigsby, mgr.; 9,373 met.; no gen.; pur. 204,086,591 kWh; rev. \$11,292,448. (1939)⁷

HUMBOLDT Util., 207 S. Thirteenth Ave., 38343, 901/784-9212, Stan Little, gen. mgr.; 4,394 met.; no gen.; pur. 171,669,263 kWh; rev. \$8,020,498. (1939)*[†]

JACKSON Util. Div., 119 E. College, 38301, 901/422-7500, Joe H. Exum, gen. mgr.; 24,945 met.; no gen.; pur. 1,016,773,578 kWh; rev. \$47,437,759. (1937)*[†]

JELICO Elec. System, Box 510, 400 S. Main St., 37762, 615/784-8431, John W. Leach Jr., mgr.; 4,222 met.; no gen. (1935)⁷

JOHNSON CITY Power Bd., 100 N. Roan St., Box 1636, 37601, 615/928-2112, Roy L. Taylor, mgr.; 47,475 met.; no gen.; pur. 1,255,382,210 kWh; rev. \$57,308,995. (1945)*⁷

KNOXVILLE Util. Bd., 626 Gay St., 37902-1626, 615/524-2911, Edwin C. Hoskins, gen. mgr.; 135,047 met.; no gen.; pur. 4,307,436,364 kWh; rev. \$214,651,342. (1938)*[†]

LA FOLLETTE, City of, Elec. Dept., Box 1411, 37766, 615/562-3316, William L. Piper, gen. mgr.; 15,061 met.; no gen.; pur. 321,129,483 kWh; rev. \$16,294,943. (1939)*⁷

LAWRENCEBURG Power System, 1607 N. Locust Ave., 38464, 615/762-7161, James W. Collins, supt.; 14,846 met.; pur. 343,093,394 kWh; rev. \$16,069,448. (1939)⁷

LEBANON Elec. Dept., 410 Park Dr., 37087, 615/444-0825, Pete Williams, mgr.; 6,592 met.; no gen. (1942)⁷

LENOIR CITY Util. Bd., Box 449, 37771, 615/986-6591, Kenneth Dutton, gen. mgr.; 28,540 met.; pur. 735,887,520 kWh; rev. \$35,133,691. (1938)*⁷

LEWISBURG Elec. System, 599 W. Ellington Pkwy., Box 90, 37091, 615/359-2544, Richard Turner, gen. mgr.; 4,578 met.; no gen.; pur. 219,401,431 kWh; rev. \$11,284,775. (1938)*[†]

LEXINGTON Elec. System, 92 Main St., Box 200, 38351, 901/968-3662, Wayne Bowman, mgr.; 16,013 met.; no gen.; pur. 12,307,498 kWh; rev. \$15,172,575. (1939)*[†]

LOUDON Util., Drawer E, 37774, 615/458-2091, Barry Baker, mgr.;

4,709 met.; pur. 165,157,883 kWh; rev. \$7,277,684. (1935)*⁴

MARYVILLE, City of, Bd. of Util., Box 667, 37803, 615/984-7900, Roddy Blevins, mgr.; 14,398 met.; no gen.; pur. 354,446,965 kWh; rev. \$17,991,462. (1939)*⁷

McMINNVILLE Elec. System, 200 Morford St., 37110, 615/473-3144, Donald R. Collette, gen. mgr.; 6,250 met.; no gen.; pur. 189,436,795 kWh; rev. \$9,687,725. (1939)*[†]

MEMPHIS Light, Gas & Water Div., Box 430, 38101, 901/528-4151, Larry Papasan, pres.; 332,344 met.; no gen.; pur. 10,393,204,000 kWh; rev. \$493,545,892. (1939)*[†]

MILAN, City of, Dept. of Pub. Util., 407 S. Second St., 38358, 901/686-1537, Harold L. Crenshaw, supt.; 6,688 met.; no gen.; pur. 200,184,384 kWh; rev. \$9,069,946. (1897)*⁷

MORRISTOWN Power System, 441 W. Main St., 37814, 615/586-4121, James E. Akins, gen. mgr.; 10,904 met.; no gen.; pur. 456,294,906 kWh; rev. \$22,668,735. (1901)*[†]

MOUNT PLEASANT Power System, Box 186, 38474, 615/379-3233, Elbert Powell, mgr.; 3,210 met.; pur. 88,436,323 kWh; rev. \$4,401,334. (1935)⁷

MURFREESBORO Elec. Dept., 205 N. Walnut St., Box 9, 37133-0009, 615/893-5514, Larry D. Kirk, gen. mgr.; 19,365 met.; no gen.; pur. 674,828,880 kWh; rev. \$33,674,038. (1939)*⁷

NASHVILLE Elec. Service, 1214 Church St., 37203, 615/747-3895, Norman Anderson, gen. mgr.; 247,934 met.; no gen.; pur. 9,529,111 kWh; rev. \$481,638,205. (1939)*[†]

NEWBERN Light & Water Dept., East Main St., 37821, 901/627-3221, Donald R. Campbell, dir. pub. works; 1,342 met.; no gen. (1938)*⁷

NEWPORT Util. Bd., Box 519, 37821, 615/623-3074, Lindsay Boyd, gen. mgr.; 14,594 met.; no gen.; pur. 341,260,341 kWh; rev. \$17,130,540. (1939)*⁷

OAK RIDGE, City of, Box 1, 37830, 615/482-8437, Phillip M. Marcum, supt.; 13,166 met.; pur. 373,747,066 kWh; rev. \$18,653,917. (1960)⁷

PARIS Bd. of Pub. Util., Box 460, 38242, 901/642-1322, Charles R. Perry, gen. mgr.; 15,801 met.; no

TENNESSEE (continued)

gen.; pur. 369,485,392 kWh; rev. \$18,460,835. (1938)*⁷

PULASKI Elec. System, 128 S. First St., Box 368, 38478, 615/363-2522, Charles Higgins, gen. mgr.; 12,342 met.; no gen.; pur. 295,594,829 kWh; rev. \$14,255,907. (1890)*⁷

RIPLEY Power & Light Co., Box 69, 38063, 901/635-2323, Mike Allmand, mgr.; 5,601 met.; pur. 211,710,579 kWh; rev. \$9,775,299. (1939)*⁶

ROCKWOOD Elec. Util., Box 108, 37854, 615/354-0514, Charles W. Johnson, gen. mgr.; 10,227 met.; no gen.; pur. 221,192,720 kWh; rev. \$10,880,610. (1939)*⁷

SEVIER COUNTY Elec. System, Box 716, Sevierville, 37862, 615/453-2887, George Seaton, supt.; 26,376 met.; no gen.; pur. 642,393,409 kWh; rev. \$35,162,730. (1939)*⁷

SHELBYVILLE Power System, Box 530, 37160, 615/684-7171, Eugene Crowell, gen. mgr.; 6,672 met.; no gen.; pur. 231,022,800 kWh; rev. \$10,919,028. (1939)*⁷

SMITHVILLE Elec. System, Box 228, 37166, 615/597-4735, E. Mark Ashburn, mgr.; 2,350 met.; no gen.; pur. 64,422,056 kWh; rev. \$3,234,376. (1969)*⁷

SOMERVILLE Light, Gas & Water, 106 E. Court Square, 38068, 901/465-3676, Kennie German, mgr.; 1,266 met.; no gen.; pur. 29,161,258 kWh; rev. \$1,465,415. (1936)*⁷

SPARTA Elec. System, Box 468, 38583, 615/738-2281, Wayne Rogers, mgr.; 2,548 met.; no gen.; pur. 76,906,080 kWh; rev. \$4,147,887. (1962)*⁷

SPRINGFIELD Electric, 718 Central Ave., 37172, 615/384-6108, W. Royce Williams, gen. mgr.; 4,947 met.; no gen.; pur. 139,095,582 kWh; rev. \$7,426,899. (1905)*⁷

SWEETWATER Utils. Bd., Box 191, 37874, 615/337-5081, Lewis Wayne Roach, gen. mgr.; no gen.; pur. 160,092,924 kWh; rev. \$8,371,229. (1939)*⁷

TRENTON Elec. Dept., 309 S. College St., 38382, 901/855-1561, Paul Bennett, util. mgr.; 2,519 met.; no gen.; pur. 85,791,967 kWh; rev. \$4,481,653. (1938)*⁷

TULLAHOMA Power System, Box 788, 37388, 615/455-4515, Joe Loggins, gen. mgr.; 8,092 met.; pur.

232,624,400 kWh; rev. \$11,957,976. (1947)*⁷

UNION CITY Elec. System, 312 N. Division St., 38261, 901/885-9212, Stanley R. McMin, system mgr.; 5,475 met.; no gen.; pur. 324,531,203 kWh; rev. \$15,097,298. (1952)*⁷

WEAKLEY COUNTY Mun. Elec. System, Box 170, Martin, 38237, 901/587-9521, Gerald Brooks, supt.; 16,679 met.; no gen.; pur. 400,019,761 kWh; rev. \$18,647,636. (1938)*⁷

WINCHESTER Power System, 219 Second Ave. N.W., 37398, 615/967-2238, Lynn Bean, mgr.; 3,878 met.; no gen.; pur. 99,629,939 kWh; rev. \$5,186,309. (1935)*⁷

TEXAS

AUSTIN City of, Elec. Util., 721 Barton Springs Rd., 78704, 512/332-9600, John Moore, dir.; 251,022 met.; gen. 1,920,000 kW, 570,000 kW coal (steam turbine), 1,350,000 kW gas (steam turbine), 5,904,789,000 kWh; pur. 354,213,000 kWh; rev. \$398,152,442. (1895)*⁷

BARTLETT City of, 140 W. Clark 76511, 817/527-3557, Mike Williams util. supt.; 700 met.; no gen. (1920)*⁵

BASTROP Elec. Dept., 904 Main St., Box S, 78602, 512/321-3941, Ben Wesson, dir. of elec. serv.; 1,750 met.*⁶

BELLVILLE City of, 30 S. Holland, Drawer 817, 77418, 409/865-3136, John Mumme, dir. of pub. wks.; 2,090 met.; no gen.; sales 40,196,878 kWh; rev. \$1,943,000. (1940)*⁷

BOERNE City of, Utils., Box 1677, 78006, 512/249-9511, Ronald C. Bowman, city admr.; 2,206 met.; no gen.; pur. 36,270,300 kWh; rev. \$2,600,000. (1943)*⁵

BOWIE City of, 304 Lindsey, 76230, 817/872-1114, E.O. Martins, actg. city mgr.; 3,000 met.; no gen.; pur. 4,696,000 kWh; rev. \$3,500,000. (1917)*⁷

BRADY City of, Water and Light Works, 101 E. Main St., 76825, 915/597-2445, Felipe Bernal, elec. supt.; 3,085 met.; gen. 17,000 kW, 5,000 kW oil (eng.), 10,196,500 kWh dual-fuel (eng.), 10,196,500 kWh; pur. 43,982,200 kWh; rev. \$3,266,567. (1912)*⁶

BRAZOS RIVER AUTHORITY, 4400 Cobbs Dr., Box 7555, Waco, 76714-7555, 817/776-1441, Carson Hoge, gen. mgr.; 1 met; gen. 22,500 kW hydro, 7,963,000 kWh; rev. \$311,950. (1929)*⁵

BRENNHAM City of, Mun. Light & Power System, 210 N. Park St., Box 1059, 77833, 409/836-7911, Dorothy Flisowski, mayor; 5,702 met.; no gen.; pur. 186,335,021 kWh; rev. \$10,204,091. (1941)*⁵

BRIDGEPORT Light & Power System, 812 Halseil, 76030, 817/683-5906, Walter Hales, mayor; 1,450 met.; no gen. (1926)*⁵

BROWNFIELD Mun. Power and Light, 218 W. Main St., 79316, 806/637-4547, R. C. Fletcher, city mgr.; 4,322 met.; gen. 21,920 kW, 6,500 kW gas (combust. turbine), 15,420 kW dual-fuel (eng.), 4,480,400 kWh; pur. 58,800,000 kWh; rev. \$3,709,634. (1923)*⁷

BROWNSVILLE City of, Pub. Util. Bd., Box 3273, 78520, 512/544-3880, William D. Towers, gen. mgr.; 27,410 met.; gen. 172,250 kW, 47,000 kW dual-fuel gas (steam), 67,000 kW coal (steam), 58,250 kW dual-fuel (gas combust. turbine), 105,716,900 kWh; pur. 915,292,000 kWh; rev. \$30,481,705. (1904)*⁷

BRYAN Utils., City of, Box 1000, 77805, 409/779-5622, Dan Wilkerson, oper. mgr.; 22,360 met.; gen. 250,000 kW, 228,000 kW steam turbine, 22,000 kW gas (combust. turbine), 365,997,500 kWh; pur. 116,285,540 kWh; rev. \$51,752,989. (1919)*⁷

BURNET City of, 127 E. Jackson St., 78611, 512/756-4858, Kenneth Taylor, city mgr.; 1,900 met.; no gen.; pur. 35,342,897 kWh; rev. \$32,102,481.*⁷

CALDWELL Mun. Light Dept., 107 S. Hill, 77836, 409/567-3271, Willis Gilliam, elec. inspector; 1,700 met.; no gen.; pur. 35 million kWh; rev. \$3,000,000.*⁵

CASTROVILLE Util. System, Box 479, 78009, 512/538-2224, Bruce A. Alexander, supt.; 886 met.; no gen.; pur. 13,095,180 kWh; rev. \$962,875. (1948)*⁶

COLEMAN Mun. Light & Power, Box 592, 76834, 915/625-2939, Curtis Baker, supt.; 2,900 met.; gen. 12,500 kW, 2,250 kW gas-fired eng., 14,250 kW dual-fuel eng., 10.4 million kWh; pur. 31 million kWh; rev. \$1,821,323. (1904)*⁵

COLLEGE STATION City of, Box 9960, 77840, 409/764-3688, John C. Woody, dir. of pub. utils.; 17,399

met.; no gen.; pur. 335,578,000 kWh; rev. \$27,744,398. (1939)*⁷

CUERO City of, Utility System, Box 512, 77954, 512/275-6114, James C. Morgan, city mgr.; 3,302 met.; no gen.; pur. 75,869,620 kWh; rev. \$3,657,414.*⁷

DENTON Mun. Utils., 215 E. McKinney St., 76201, 817/566-8230, Robert E. Nelson, exec. dir. of utils.; 27,797 met.; gen. 168,000 kW gas (steam turbine), 80,453,000 kWh; pur. 632,487,000 kWh; rev. \$52,832,270. (1905)*⁷

ELECTRA City of, 101 W. Cleveland, 76360, 817/495-2146, Roger L. Dunlap, city mgr.; 1,369 met.; no gen.; pur. 21,318,060 kWh; rev. \$1,352,004. (1939)*⁷

FARMERVILLE City of, 303 S. Main, 75031, 214/782-6151, Jim Edd Wines, city mgr.; 1,398 met.; no gen.; pur. 16,644,350 kWh; rev. \$1,391,840. (1930)*⁷

FLATONIA Elec. Dept., Box 375, 78941, 512/865-3548; Doris Walker, city sec.; 928 met.; no gen.; pur. 19,162,557 kWh; rev. \$1,017,898. (1945)*⁵

FLORESVILLE Elec. Light & Power System, Box 218, 78114, 512/393-3131, Fred R. Wauters, gen. mgr.; 7,409 met.; no gen.; pur. 107,776,941 kWh; rev. \$7,800,722. (1943)*⁷

FLOYDADA Power & Light, Box 10, 79235-0010, 806/983-2834, Connie R. Galloway, elec. supt.; 1,167 met.; no gen.; pur. 14,244,600 kWh; rev. \$950,000. (1939)*⁷

FREDERICKSBURG City of, Box 111, 78624-0111, 512/997-7521, Allen Oestreich, dir. of pub. wks. and utils.; 4,132 met.; no gen.; pur. 76,698,910 kWh; rev. \$3,254,112. (1935)*⁷

GARLAND Power & Light, 200 N. Fifth St., 75040, 214/494-7251, Robert E. Corder, dir. elec. util.; 56,767 met.; gen. 420,000 kW (gas steam turbine), 637,151,000 kWh; pur. 1,348,903,000 kWh; rev. \$118,538,331. (1922)*⁷

GARRISON City of, Box 207, 75946, 409/347-2201, Gena King, city sec.; 526 met.; no gen.; rev. \$459,000.*⁵

GEORGETOWN City of, Box 409, 78626, 512/863-5533, Robert Gaylor, city mgr.; 9,511 met.; no gen.; pur. 130,000,000 kWh; rev. \$7,967,721.*⁵

GIDDINGS City of, Lighting & Power System, 118 E. Richmond St., 78942, 409/542-3888, Larry Pippen, city mgr.; 2,209 met.; no

TEXAS (continued)

gen.; pur. 41,672,643 kWh; rev. \$2,350,682. (1941)⁷

GOLDTHWAITE, City of, 1218 Fisher St., Box 450, 76844, 915/648-3186, Dale Allen, util. mgr.; 1,050 met.; no gen. (1941)⁷

GONZALES, City of, Box 547, 78629, 512/672-2815, Freddie Marek, elec. supt.; 3,110 met.; gen. 1,100 kW hydro, 5,694,000 kWh; pur. 59,682,063 kWh; rev. \$3,437,000. (1941)⁷

GRANBURY Mun. Utils., 116 W. Bridge, Box 969, 76048, 817/573-1114, Bob Brockman, city mgr.; 2,056 met.; no gen. (1921)⁷

GREENVILLE, City of, Box 1049, 75401, 214/457-3140, William L. Taylor, dir. of elec. wrks.; 11,330 met.; gen. 97,000 kW, 82,000 kW (steam turbine), 15,000 kW (eng.), 67,560,862 kWh; sales 285,667,000 kWh; rev. \$24,821,948. (1891)⁷

GUADALUPE-BLANCO RIVER AUTHORITY, Box 271, Seguin, 78155, 512/379-5822, John Specht, gen. mgr.; 1 met. (whole-sale); gen. 16,080 kW hydro, 85,782,000 kWh; pur. none; rev. \$2,599,194. (1963)⁷

HALLETTVILLE, City of, Box 257, 77964, 512/798-2201, Thomas H. Kostelnik, dir. pub. wrks.; 1,549 met.; no gen.; pur. 27,602,723 kWh; rev. \$1,076,422. (1891)⁷

HEARNE Mun. Elec. System, 210 Cedar St., 77859, 409/279-3461, Dorothy Jo Lastor, city mgr.; 2,410 met.; gen. 6,500 kW dual-fuel eng., 4,500 kW gas, 2,000 kW oil, 6,500 kW gas turbine; pur. 38,000,000 kWh; rev. \$3,487,000. (1912)⁵

HEMPSTEAD, City of, 1125 Austin St., 77445, 409/826-2486, James Vines, mgr. of utils.; 1,764 met.; no gen.; pur. 32 million kWh; (1940)⁶

HONDO, City of, Elec. System, 1600 Ave. M, 78861, 512/426-3377, Oscar Dominguez, elec. supt.; 2,642 met.; no gen.; pur. 43,407,000 kWh; rev. \$3,333,573. (1942)⁶

JASPER, City of, Light & Power, Box 1170, 75951-1170, 409/384-4651, Wayne DuBose, city mgr.; 4,213 met.; no gen.; pur. 126,177,446 kWh; rev. \$9,019,297. (1948)⁷

KERRVILLE PUBLIC UTILITY BOARD, 800 Junction Highway, 78028, 512/257-8000, Bill Taylor, mgr.; 15,241 met. (1987) (Kerrville voters approved bond issue in March 1987 to finance acquisition of system from Lower Colorado River Authority. Full municipal operation expected by December 1987)

KIRBYVILLE Light & Power Co., 107 S. Elizabeth St., 75956, 409/423-2464, C. B. Herndon, mgr.; 1,100 met.; no gen.; pur. 15,647,468 kWh; rev. \$1,438,047. (1974)⁵

LA GRANGE Elec. Utils., Box 339, 78945, 409/968-5805, Everett Bilbrey, util. mgr.; 2,698 met.; no gen.⁷

LAMPASAS, Pub. Utils., Box 666, 76550, 512/556-3641, Charles Sanders, elec. supt.; 3,363 met.; no gen.; sales 59,885,584 kWh; rev. \$4,193,392. (1946)⁶

LEXINGTON, City of, Box 56, 78947, 409/773-2221, Jerry Poston, mgr.; 495 met.; no gen.; pur. 8,059,686 kWh; rev. \$410,000. (1938)⁷

LIBERTY, City of, 1829 Sam Houston St., 77575, 409/336-3684, Roy N. Bennett, city mgr.; 3,193 met.; no gen.; pur. 90,877,200 kWh; rev. \$5,286,905. (1939)⁷

LIVINGSTON, City of, Mun. Elec. System, 200 W. Church, 77351, 409/327-4311, Sam Gordon, city mgr.; 2,726 met.; no gen.; pur. 62,964,925 kWh; rev. \$5,676,000. (approx. 1920)⁷

LLANO, City of, 301 W. Main St., 78643, 915/247-4158, George C. Rogers, city mgr.; 1,617 met.; no gen.; pur. 31,233,169 kWh; rev. \$1,397,138. (1946)⁷

LOCKHART, City of, 1308 W. San Antonio St., Box 239, 78644, 512/398-3461, Tom Brymer, city mgr.; 3,871 met.; no gen.; pur. 66,400,642 kWh; rev. \$3,000,926. (1928)⁷

LOWER COLORADO RIVER AUTHORITY, Box 220, Austin, 78767, 512/473-3586, S. David Freeman, gen. mgr.; 26,133 met.; gen. 550,000 kW coal (steam turbine), 1,050,000 kW gas (steam turbine), 242,000 kW hydro, 7,039,110,100 kWh; pur. 80,371,372 kWh; rev. \$220,505,325. (1935)⁷

LUBBOCK Power & Light, Box 2000, 79457, 806/763-9381, Carroll McDonald, elec. util. dir.; 41,759 met.; gen. 200,500 kW, 143,000 kW gas (steam turbine), 52,500 kW gas (combustion cycle), 5,000 kW dual-fuel (eng.); 551,957,280 kWh; pur. 203,104,000 kWh; rev. \$46,592,990. (1916)⁷

LULING, City of, Box 630, 78648, 512/875-2469, T. H. "Jack" Calfall, city mgr.; 2,544 met.; no gen.; pur. 42,868,858 kWh; rev. \$2,508,653. (1941)⁶

MASON, City of, Utils., Box 68, 76856, 915/347-6449, R. Clinton Schulze, mayor; 1,470 met.;

no gen.; pur. 17,598,446 kWh; rev. \$869,154. (1955)⁷

MOULTON, City of, Box 369, 77975, 512/596-4621, Richard Kresta Jr., mgr.; 643 met.; no gen. (1939)⁵

NEW BRAUNFELS Utils., 263 Main Plaza, Box 315289, 78131-5289, 512/629-8400, Robert H. Sohn, gen. mgr.; 15,043 met.; gen. 900 kW hydro, 7,639,000 kWh; pur. 618,498,501 kWh; rev. \$25,625,214. (1942)⁷

NEWTON, City of, Box 889, 75966, 409/379-5061, Betty Simmons, city clerk; 1,033 met. (1936)⁷

PLAINS, City of, 601 E. 11th, Box 550, 79355, 806/456-2288, Ruth Murphree, actg. city sec.; 336 met.; no gen.; rev. \$359,467.⁷

ROBSTOWN, City of, Util. Systems, 101 E. Main St., Box 71, 78380, 512/387-3554, Roy Gutierrez, supt. of utils.; 4,370 met.; gen. 21,701 kW dual fuel (eng.), 17,804,641 kWh; pur. 55,425,900 kWh; rev. \$4,981,215. (1939)⁷

SABINE RIVER AUTHORITY OF TEXAS, Box 569, Orange 77630, 409/883-9334, Sam Collins, gen. mgr. (The Texas and Louisiana Sabine River authorities jointly operated the 85,000-kW Toledo Bend Dam and sell the output to three private power companies.)

SAN ANTONIO City Pub. Service, Box 1771, 78296, 512/227-3211, Arthur von Rosenberg, gen. mgr.; 453,146 met.; gen. 3,236,000 kW, 836,000 kW coal (steam turbine), 2,400,000 kW gas (steam turbine), 10,560,584,900 kWh; pur. 393,410,000 kWh; rev. \$636,465,280. (1942)⁷

SAN AUGUSTINE, City of, 301 S. Harrison St., 75972, 409/275-2121, Alton Shaw, city mgr.; 1,102 met.; no gen.; pur. 19,666,800 kWh; rev. \$1,090,51. (about 1917)⁵

SANGER, City of, Elec., Box 578, 76266, 817/458-4710, Stanley K. Day, dir. elec. dept.; 1,598 met.; pur. 22,549,000 kWh; rev. \$1,412,730. (1929)⁷

SAN MARCOS Elec. Util., Box 788, San Marcos 78666, 512/396-2451, David Sanders, actg. district mgr.; 12,000 met.; no gen.; (System acquired for \$9.3 million from Lower Colorado River Authority.) (1986)

SAN SABA, City of, 302 E. Wallace, 76877, 915/372-5144, James Reavis, city sec. (City and Lower Colorado River Authority agreed in 1987 to transfer of electric facilities from authority to the city. Details still being negotiated.)⁷

SCHULENBURG, City of, 607 Upton Ave., Box 8, 78956, 409/743-4126, Robert A. Hoot, util. mgr.; 1,624 met.; no gen.; sales 24,776,139 kWh; rev. \$1,151,346. (1941)⁷

SEGUN City of, Box 591, 78155, 512/379-3212, Bill E. Polasek Jr., dir. utils & pub. works; 7,454 met.; gen. 250 kW hydro, 1,599,600 kWh; pur. 153,280,534 kWh; rev. \$11,367,497. (1907)⁶

SEYMOUR, City of, Box 31, 76380, 817/888-3148, Joe P. Snyder, elec. supt.; 1,830 met.; no gen.; pur. 27,207,000 kWh; rev. \$1,813,000. (1929)⁷

SHINER Light & Water Utils., Box 308, 77984, 512/594-3362, Johnny Kurtz, elec. supt.; 1,200 met.; no gen.⁵

SMITHVILLE City of, Util. Dept., 317 Main St., Box 449, 78957, 512/237-3267, Bill Davison, mayor; 1,816 met.; no gen.; pur. 24,487,945 kWh; rev. \$1,565,656. (1939)⁷

TEXAS A & M UNIVERSITY, Box 217, College Station, 77843, 409/845-1232, J. J. Estill, dir. elec. ops.; 724 met.; gen. 36,500 kW steam; pur. 32.8 million kWh. (State appropriation covers cost of electricity provided state university facilities.) (1930s)⁵

TIMPSON, City of, Box 369, 75975, 409/254-2421, Tommy Sparks, elec. supt.; 650 met.; no gen.; rev. \$500,979.⁷

TULIA, City of, Power & Light, 201 N. Maxwell St., 79088, 806/995-3547, N.D. Waggoner, elec. util. dir.; 2,250 met.; gen. 17,636 kW dual-fuel (eng.-standby); pur. 29,515,200 kWh; rev. \$1,882,045. (1912)⁷

TRINITY RIVER AUTHORITY, Box 60, Arlington, 76010, 817/467-4343, Danny Vance, mgr. (The authority is considering development of a 50-MW hydro project at Lake Livingston.) (1955)⁵

UNIVERSITY OF TEXAS AT AUSTIN, Drawer 7580, Austin, 78713, 512/471-6241, H. T. Ward, util. dir.; gen. 54,000 kW, 40,500 kW gas (steam turbine), 13,500 kW gas (combustion turbine), 315,325,900 kWh; pur. 11,981,696 kWh; rev. \$15,388,892. (State appropriation covers costs of electricity provided state university facilities but some electricity sold to auxiliary facilities.) (1930s)⁷

WAELEDER, City of, Box 62, 78959, 512/665-7331, Zora Schultz, mayor; 450 met.; no gen.; pur. 6,322,800 kWh; rev. \$349,402. (1927)⁷

TEXAS (continued)

WEATHERFORD, City of, Mun. Utils., 303 Palo Pinto St., Box 255, 76086, 817/594-5441, ext. 250, James R. Dickason, dir. of utils.; 8,192 met.; gen. 1,992 kW oil (eng.), 4,356 kW dual-fuel (eng.), pur. 153,148,872 kWh; rev. \$10,454,716. (1940)*⁷

WEIMAR, City of, Box 67, 78962, 409/725-8554, F. E. Parks, city mgr.; 1,152 met.; no gen.; pur. 27,995,643 kWh; rev. \$1,489,446. (1939)*⁷

WHITESBORO Elec. System, Box 340, 76273, 214/564-3311, Robert Brady, city admin.; 1,580 met.; no gen.; pur. 21,839,000, rev. \$1,281,140. (1986)*⁷

YOAKUM, City of, Utils., 900 Irvine St., Drawer 738, 77995, 512/293-3148, Mark A. Stubbs, city mgr.; 3,059 met.; no gen.; pur. 51,353,336 kWh; rev. \$2,647,275.*⁷

UTAH

BEAVER City Corp., 60 West Center St., 84713, 801/438-2451, Robert H. Lee, mayor; 1,050 met.; gen. 650 kW hydro, 4,049,700 kWh.*⁶

BLANDING, City of, 50 West 100 S., 84511, 801/678-2791, Norman L. Johnson, mgr.; 1,450 met.; no gen.; pur. 16,967,229 kWh; rev. \$1,807,000. (1941)*⁷

BOUNTIFUL City Light & Power, 198 S. 200 West, 84010, 801/295-9496, Cliff Michaelis, dir.; 11,353 met.; gen. 14,050 kW, 150 kW oil (eng.), 400 kW gas (eng.), 13,500 kW dual-fuel (eng.), 481,560 kWh; pur. 195,376,933 kWh; rev. \$7,459,708. (1935)*⁷

BRIGHAM CITY Light & Power, 20 N. Main St. Box A, 84302, 801/734-2001, Jim Davis, pub. util. dir.; 5,563 met.; gen. 1,750 kW hydro, 13,665,800 kWh; pur. 61,698,773 kWh, rev. \$3,921,990. (1905)*⁷

ENTERPRISE, City of, Box 340, 84725, 801/878-2212, Richard P. Truman, supt.; no gen.; pur. 6,552,142 kWh; rev. \$279,680. (1972)*⁷

EPHRAIM City Light and Power Dept., 5 S. Main, 84627, 801/283-4631, Steve Olsen, mgr.; 950 met.; gen. 3,040 kW hydro.*⁵

FAIRVIEW Mun. Light & Power, Box 97, 84629, 801/427-3858, Kent Miner, city admin.; 600 met.; no gen.; pur. 6,385,385 kWh; rev. \$466,107. (1903)*⁵

FILLMORE, City of, Box 686, 84631, 801/743-5314, Keith L. Gillens, mayor; 965 met.; no gen.; pur. 25,921,629 kWh; rev. \$1,022,582. (1918)*⁷

HEBER Light & Power Co., 31 S. 100 West, Heber City, 84032, 801/654-1581, Ray Farrell, gen. mgr.; 3,750 met.; gen. 2,325 hydro, 10,825,000 kWh; pur. 33.8 million kWh; rev. \$2,600,000. (1909)*⁷

HELPER, City of, Light & Power, 73 S. Main, 84526, 801/472-5391, Robert E. Olsen, mayor; 970 met.; pur. 11,935,003 kWh; rev. \$885,000. (1900)*⁷

HOLDEN Town Corp., Box 127, 84636, 801/795-2228, Neil Stevens, councilman; 180 met.; no gen.; pur. 2,424,297 kWh; rev. \$132,378. (1922)*⁵

HURRICANE City Power, Box 580, 84737, 801/635-2811, Rick Marchal, mgr.; 1,345 met.; no gen.; pur. 1,900,000 kWh; rev. \$1,100,000. (1974)*⁷

HYRUM City Corp., 83 W. Main, 84319, 801/245-6033, Bruce E. Darley, mayor; 1,454 met.; gen. 400 kW hydro, 3,243,000 kWh; pur. 43,431,879 kWh; rev. \$2,286,656.*⁷

KANAB, City Power Dept., 140 E. 100 S., 84741, 801/644-2407, Jim Willis, power mgr.; 1,200 met.; no gen. (System was acquired June 1, 1987 from Utah Power & Light Co.)*⁷

KANOSH Town Corp., Box 96, 84637, 801/759-2415, Frank Harding, mayor; 240 met.; no gen.; pur. 1,739,556 kWh; rev. \$115,870.*⁵

KAYSVILLE City, Power & Light, 23 E. Center St. 84037, 801/546-1235, Walt Meacham, supt. elec. dept.; 3,624 met.; no gen.; pur. 44,363,067 kWh; rev. \$2,817,000. (1908)*⁷

LEHI, City Power Dept., 95 E. 100 North, 84043, 801/768-3030, Glen A. Carter, pwr. supt.; 3,045 met.; no gen.; pur. 26,220,150 kWh; rev. \$515,317. (1926)*⁷

LEVAN Mun. Elec. System, 60 Center St., Box 143, 84639, 801/623-0701, Ted Bosh, supt.; 190 met.; no gen.; pur. 3,000,000 kWh; rev. \$112,381. (1919)*⁷

LOGAN, City of, Power & Light Dept., 61 W. 100 North St., Box 527, 84321, 801/752-3060, Vaun Bethers, supt.; 13,000 met.; gen. 7,060 kW oil, 7,400 kW hydro, 9,483,000 kWh; pur. 183,353,750 kWh; rev. \$9,156,091. (1903)*⁵

MANTI City Power, 50 S. Main, 84642, 801/835-2401, Gene Rogers, mgr.; 1,040 met.; gen. 430 kW hydro; pur. 12 million kWh, rev. \$1,036,668. (1919)*⁷

MEADOW Town Corp., Box 88, 84644, 801/842-7281, Dennis L. Bond, councilman; 132 met.; no gen.; pur. 1,776,792 kWh; rev. \$102,581. (est. 1910)*⁵

MONROE City Elec. Light Dept., Box A, 10 N. Main, 84754, 801/527-3511, Doug Gadd, city elec. supt.; 703 met.; gen. 568 kW hydro, 236,664 kWh; pur. 10,560,555 kWh; rev. \$615,872.*⁵

MORGAN City Corp., 48 W. Young St., Box 267, 84050, 801/829-3461, Dennis D. Woolsey, power supt.; 770 met.; pur. 9,352,132 kWh; rev. \$360,682. (1933)*⁵

MT. PLEASANT Mun. Elec. Light & Power, 115 W. Main St., Box L, 84647, 801/462-2456, Terence E. O'Connor, city admin.; 750 met.; gen. 300 kW hydro, pur. 12.5 million kWh; rev. \$1,016,144. (1913)*⁵

MURRAY City Power, 153 West 4800 South, 84107, 801/264-2651, John Mohlman, gen. mgr.; 14,084 met.; gen. 12,210 kW, 7,310 kW dual-fuel (combust. turbine), 4,900 kW hydro; 17,937,100 kWh; pur. 240,486,884 kWh; rev. \$14,655,868. (1913)*⁷

NEPHI City Power, 21 E. 100 North, 84648, 801/623-0276, G. Richard Judd, power supt.; 1,541 met.; gen. 900 kW hydro; 4,700,000 kWh; pur. 32,515,620 kWh; rev. \$1,684,000. (1906)*⁷

OAK CITY, Town of, Box 152, 84649, 801/846-3851, Alden Nielson, councilman; 227 met.; no gen.; pur. 3,136,240 kWh; rev. \$153,170. (1926)*⁷

PARAGONAH Mun. Light Dept., 84760, 801/477-3605, Hazel Robinson, 165 met.; gen. 625 kW hydro, 2,506,200 kWh; pur. 1 million kWh.*⁵

PAROWAN City Corp., Box 576, 84761, 801/477-3331, James B. Burns, city mgr.; 1,017 met.; gen. 700 kW hydro, 3,011,700 kWh; pur. 11,558,433 kWh; rev. \$904,000. (1929)*⁷

PAYSON City Corp., 439 W. Utah Ave., 84651, 801/465-9226, Ronnie Crump, elec. supt.; 3,018 met.; no gen.; pur. 38,492,287 kWh; rev. \$2,370,789. (1902)*⁷

PRICE Mun. Corp., Box 893, 84501, 801/637-5010, Art Lee Martines, mayor, 3,500 met.; pur. 56,072,000 kWh; rev. \$3,783,058.*⁵

PROVO City, Dept. of Energy, 251 W. 800 N., 84601, 801/373-7170, Bud L. Bonnett, dir.; 30,141 met.; gen. 50,500 kW, 38,000 kW coal (steam turbine), 2,500 kW geothermal (steam turbine), 10,000 dual-fuel (eng.), 104,092,855 kWh; pur. 438,652,855 kWh; rev. \$16,241,572. (1940)*⁷

ST. GEORGE, Dept. of Water and Power, 144 West 600 South, No. 2, 84770, 801/634-5800, Wayne M. McArthur, dir.; 8,950 met.; gen. 4,300 kW oil (eng.), 1,645,800 kWh; pur. 220,573,320 kWh; rev. \$8,748,000. (1942)*⁷

SALEM City Power Dept., 30 W. 100 South, Box 901, 84653, 801/423-2770, Douglas R. Johnson, city council; 775 met.; no gen.; rev. \$461,000. (1922)*⁵

SANTA CLARA, City of, 2721 W. Santa Clara Dr., Box 699, 84765, 801/673-6712, Parley Hassell, mayor. (System of 525 meters being acquired by negotiation from Utah Power & Light. Anticipated switchover March 1988.)*⁷

SPANISH FORK, City of, 50 S. Main St., 84660, 801/798-3568, Robert Disbrow, supt., 3,549 met.; no gen.; pur. 48,323,076 kWh; rev. \$2,636,378. (1919)*⁵

SPRING CITY Corp., 46 N. Main, 84662, 801/462-2244, George Kenzy, councilman; 320 met.; gen. 300 kW hydro; 1,300,000 kWh; pur. 23,000,000 kWh; rev. \$219,603. (1912)*⁷

SPRINGVILLE City Power Co., 164 W. 200 South, 84663, 801/489-3263, Patrick Monney; 4,200 met.; gen. 14,000 kW gas-fired (eng.), 2,000 kW hydro; 8,000 kWh; pur. 48,000,000 kWh; rev. \$4,300,000. (1906)*⁷

STRAWBERRY ELECTRIC SERVICE DISTRICT, Box 70, Payson, 84651, 801/465-9273, Milt Theobald, clerk; 1,800 met.; no gen.; pur. 29 million kWh; rev. \$2,119,000. (1986)*⁷

WASHINGTON City Elec. Distribution System, 111 N. 100 E., Box 575, 84780, 801/628-1666, Ralph McClure, city mgr. (System with approximately 1,600 meters being acquired from Utah Power & Light Co. by negotiation. Anticipated bond sales December 1987 and switchover February 1988.)*⁷

VERMONT

BARTON, Village of, Elec., Box D, 05822, 802/525-4747, Robert B. Miller, supt. of pub. works; 1,608 met.; gen. 2,800 kW, 1,400 kW oil (eng.), 1,400 kW hydro, 5,951,480 kWh; pur. 11,572,366 kWh; rev. \$538,202.⁷

BURLINGTON, City of, Elec. Dept., 585 Pine St., 05401, 802/658-0300, Robert C. Young, gen. mgr.; 16,715 met.; gen. 83,000 kW, 30,000 kW coal (steam turbine), 28,000 kW oil (combust. turbine), 25,000 kW wood (steam turbine), 205,600,293 kWh; pur. 329,088,000 kWh; rev. \$31,809,244. (1905)*†⁸

ENOSBURG FALLS, Village of, Elec. Dept., Rt. 4, Box 448, 05450, 802/933-5544, Bernard C. Machia, supt.; 1,168 met.; gen. 1,640 kW, 890 kW oil (eng.), 750 kW hydro, 4,199,550 kWh; pur. 12,939,680 kWh; rev. \$1,071,913. (1928)*⁷

HARDWICK, Village of, Elec. Dept., Box 516, 05843, 802/472-5201, David B. Seuss, gen. mgr.; 3,319 met.; gen. 1,400 kW, 800 kW hydro, 600 kW diesel eng., 1,926,822 kWh; pur. 27,074,028 kWh; rev. \$2,049,294.*†⁸

HYDE PARK, Village of, Inc., Box 37, 05655, 802/888-2310, Edward French Jr., chmn., trustees; 863 met.; no gen.; pur. 7,066,947 kWh; rev. \$645,461. (1895)*⁷

JACKSONVILLE, Village of, Elec. Co., Rt. 112, 05342, 802/368-7010, Earle S. Holland Jr., pres.; 502 met.; no gen.; pur. 4,546,630 kWh; rev. \$375,233. (1922)⁷

JOHNSON, Village of, Elec. Dept., Box 603, 05656, 802/635-2301, Kenneth Phelps, supt.; 650 met.; no gen.; rev. \$935,032. (1894)⁵

LUDLOW, Elec. Light Dept., Box 289, 05149, 802/228-3721, Howard R. Barton, supt.; 2,836 met.; no gen.; pur. 37,646,920 kWh; rev. \$2,759,839. (1900)⁷

LYNDONVILLE, Elec. Dept., 24 Main St., 05851, 802/626-3366, Kenneth C. Mason, mgr.; 3,812 met.; gen. 2,400 kW hydro, 9,333,133 kWh; sales 39,854,580 kWh; rev. \$3,189,473. (1896)*⁷

MORRISVILLE Water & Light Dept., 18 Portland St., Box 325, 05661, 802/888-4961, James C. Fox,

mgr./supt.; 2,716 met.; gen. 4,990 kW hydro, 13,451,120 kWh; pur. 40,064,497 kWh; rev. \$3,338,322. (1895)*⁷

NORTHFIELD, Elec. Dept., 26 S. Main St., 05663, 802/485-5411, Edgar Gadbois, mun. mgr.; 1,749 met.; no gen.; pur. 17,366,675 kWh; rev. \$1,684,158. (1895)⁷

ORLEANS, Village of, Memorial Square, 05860, 802/754-8584, Slayton R. Marsh, supt.; 583 met.; no gen.; pur. 15,287,050 kWh; rev. \$935,592. (1925)⁷

READSBORO, Village of, Elec. Light Dept., 114 Main St., Box 236, 05350, 802/423-7593, Robert Birch, supt.; 295 met.; no gen. (1936)⁵

STOWE Village of, Water & Light Dept., Main St., Box 190, 05672, 802/253-7215, Fred Hutchins, gen. mgr.; 2,568 met.; no gen.; pur. 83,295,597 kWh; rev. \$4,136,740. (1896)⁷

SWANTON Village, Box 279, 05488, 802/868-3397, Orman E. Croft, village mgr.; 2,662 met.; gen. 4,600 kW hydro, 10,098,000 kWh; pur. 66,462,272 kWh; rev. \$2,533,579. (1894)*⁷

VIRGINIA

BEDFORD, City of, Drawer 807, 24523, 703/586-8963, Robert J. Schnabl, elec. util. dir.; 5,267 met.; gen. 950 kW hydro, 6,603,000 kWh; pur. 149,877,000 kWh; rev. \$7,948,494. (1911)*⁵

BLACKSTONE, Town of, 100 W. Elm St., 23824, 804/292-7251, Richard H. Lee, town mgr.; 2,030 met.; pur. 30,348,000 kWh; rev. \$2,098,686. (1927)*⁷

BRISTOL Utils., 300 Lee St., 24203, 703/669-4112, Thomas E. Adams, gen. mgr.; 13,726 met.; no gen.; pur. 436,781,425 kWh; rev. \$20,018,915. (1945)*⁷

CULPEPER, Town of, Elec. Dept., 118 W. Davis St., 22701, 703/825-8165, G.W. Griffin, town mgr.; 1,715 met.; gen. 6,616 kW, 1,600 kW oil (gas. comb. turbine), 5,016 kW dual-fuel (eng.), 3,393,600 kWh; pur. 26,002,800; rev. \$1,795,424. (1934)*⁶

DANVILLE, City of, Elec. Dept., Drawer 3308, 24543, 804/799-5270, John R. Sweeney,

dir. of utils.; 41,827 met.; gen. 10,200 kW hydro; 10,240,000 kWh; pur. 612,734,000 kWh; rev. \$30,135,357. (1886)*⁷

ELKTON, Town of, 173 W. Spotswood Ave., 22827, 703/298-1330, Gerald K. Monger, supt.; 809 met.; no gen.; pur. 11,880,481 kWh; rev. \$801,545. (1930s)*†⁷

FRANKLIN, City of, Elec. Dept., Box 179, 23851, 804/562-8568, Spurgeon R. Spivey, dir. of pub. util.; 3,897 met.; no gen.; pur. 85,276,800 kWh; rev. \$5,539,811. (1891)*⁸

FRONT ROYAL, Town of, Box 1560, 22630, 703/635-3111, Breckinridge Bentley, town mgr.; 5,000 met.; no gen.; pur. 84,281,421 kWh; rev. \$4,829,355. (1894)⁷

HARRISONBURG Elec. Comm., 89 W. Bruce St., 22801, 703/434-5361, Kenneth L. Frantz, gen. mgr.; 11,618 met.; no gen.; pur. 358,974,000 kWh; rev. \$20,392,289. (1957)*⁷

MANASSAS, City of, 9027 Center St., Box 512, 22110, 703/335-8225, Philip L. Young, supt., elec. dept.; 7,500 met.; gen. 5,425 kW, 4,000 kW oil-fired eng., 1,425 kW hydro, 562,000 kWh; pur. 121,398,910 kWh; rev. \$7,846,519. (1912)*†⁸

MARTINSVILLE, City of, 55 W. Church, Box 1112, 24114, 703/638-3971, ext. 183/184, Robert I. Corekin, dir.; 7,910 met.; gen. 1,300 kW hydro, 4,272,000 kWh; pur. 185,040,000 kWh; rev. \$10,030,860. (1900)*†⁷

RADFORD, City of, 701 - 17th St., 24141, 703/639-3641, W. E. Willis, supt.; 5,410 met.; gen. 1,250 kW hydro; 4,495,000 kWh; pur. 200,460,000 kWh; rev. \$9,397,307. (1930)*†⁷

RICHLANDS, Town of, 217 Railroad Ave., 24641, 703/964-2566, Garnet Sword, supt.; 2,800 met.; no gen.; pur. 56,967,992 kWh; rev. \$2,906,925.*⁵

RICHMOND, City of, Dept. of Pub. Utils., 600 E. Broad St., 23219, 804/780-4812, Jerry Johnson, actg. dir.; no gen.; pur. 63,297,624 kWh; rev. \$6,460,179. (Department provides street lighting and serves some municipal buildings.)⁷

SALEM, City of, Box 869, 24153, 703/375-3030, Reginald A. Oliver, supt.; 10,909 met.; no gen.; pur. 278,537,669 kWh; rev. \$14,369,503. (1894)*⁷

VIRGINIA POLYTECHNIC Heat and Power Plant, Campus, Blacksburg, 24061, 703/961-7427, R. E. Powell, dir., util. ops.; 5,000 met.; gen. 7,050 kW steam; pur. 138.6 million kWh. (System serves Blacksburg and, with state financial support, university facilities.) (1920s)⁵

WAKEFIELD, Town of, Box 550, 23888, 804/899-2361, Wayne A. Seeley, mayor; 550 met.; no gen.; pur. 8,940,800 kWh; rev. \$541,034. (1922)⁵

WASHINGTON

(Public Utility Districts, abbreviated PUD, are listed alphabetically by county names.)

BENTON COUNTY PUD No. 1, Box 6270, Kennewick, 99336, 509/582-2175, Donald R. Clayhold, mgr.; 31,874 met.; no gen.; pur. 1,259,880,685 kWh; rev. \$35,833,183. (1934)*†⁷

BLAINE City Light, Box 490, 98230, 206/332-8311, Dale A. Ennor, city mgr.; 1,718 met.; no gen.; pur. 41,922,000 kWh; rev. \$1,620,531. (1907)*⁷

CASHMERE, City of, 101 Woodring St., 98815, 509/782-3513, David L. Simmer, supt.; 1,564 met.; no gen.; pur. 46,617,750 kWh; rev. \$793,172. (1908)⁵

CENTRALIA City Light, 1100 N. Tower Ave., 98531, 206/736-7611, William C. Cummings, supt.; 7,021 met.; gen. 10,400 kW hydro, 75,041,100 kWh; pur. 113,277,727 kWh; rev. \$5,415,000. (1895)*⁷

CHELAN COUNTY PUD No. 1, Box 1231, Wenatchee, 98801, 509/663-8121, Gerald L. Copp, chief exec. officer, gen. mgr.; 27,180 met.; gen. 1,913,375 kW, 400 kW diesel (eng.), 1,912,975 kW hydro, 8,599,031 kWh; pur. 805,125,898 kWh; rev. \$63,692,968. (1936)*†⁷

CHENEY City of, Light Dept., 112 Anderson Rd., 99004, 509/235-8431, Thomas G. Richardson, dir., light dept.; 2,755 met.; no gen.; pur. 96,145,980 kWh; rev. \$3,767,329. (1931)⁷

CHEWELAH, City of, Box 258, 99109, 509/935-8311, Dorothy L. Stumpf, city admin.; 1,000 met.; no gen. (1929)⁷

CLALLAM COUNTY PUD No. 1, Box 1117, Port Angeles, 98362, 206/452-9771, Philip K. Jackson, mgr.; 18,322 met.; no gen.; pur. 389,737,524 kWh; rev. \$16,285,471. (1944)*†

CLARK COUNTY PUD, 1200 Ft. Vancouver Way, Box C-005, Vancouver, 98668, 206/699-3000, W. Bruce Bosch, gen. mgr.; 89,040 met.; no gen.; pur. 2,643,369,987 kWh; rev. \$92,936,302. (1938)*

COULEE DAM, City of, Box 156, 99116, 509/633-0320, Barry Peacock, city supt.; 574 met.; no gen.; pur. 19,825,000 kWh; rev. \$479,000. (1959)*

COWLITZ COUNTY PUD No. 1, 960 Commerce Ave., Box 3007, Longview, 98632, 206/423-2210, Robert L. McKinney, gen. mgr.; 36,782 met.; gen. 70,000 kW hydro, 202,975,000 kWh; pur. 3,977,586,000 kWh; rev. \$83,122,551. (1936)*†

DOUGLAS COUNTY PUD No. 1, 1151 Valley Mall Pkwy., East Wenatchee, 98801, 509/884-7191, Eldon E. Landin, mgr.; 11,343 met.; gen. 774,300 kW hydro, 3,583,614,000 kWh; pur. 1,256,277,000 kWh; rev. \$13,687,832. (1945)*

EATONVILLE Power & Light Co., Box 309, 98328, 206/832-3361, Joe Sander, supt.; 500 met.; no gen.; pur. 17,212,578 kWh; rev. \$575,895. (1913)*

ELLENSBURG, City of, 420 N. Pearl St., 98926, 509/962-9863, ext. 223, Doug Williams, city mgr.; 5,239 met.; no gen.; pur. 147,515,036 kWh; rev. \$5,281,969. (1891)*

FERRY COUNTY PUD No. 1, Box 324, Republic, 99166, 509/775-3325, Kenneth R. Coyle, mgr.; 2,223 met.; no gen.; pur. 61,993,720 kWh; rev. \$2,676,977. (1936)*

FIRCREST, Town of, 115 Ramsdell St., 98466, 206/564-8900, James R. Valentine, town admn.; 2,170 met.; no gen.; pur. 43,579,281 kWh; rev. \$1,598,522. (1925)*

FRANKLIN COUNTY PUD No. 1, Box 2407, Pasco, 99302, 509/547-5591, Kenneth R. Engstrom, mgr.; 15,428 met.; no gen.; pur. 583,765,000 kWh; rev. \$17,114,558. (1934)*

GRANT COUNTY PUD No. 2, Box 878, Ephrata, 98823, 509/754-3541, John L. McMahan, mgr.; 29,732 met.; gen. 1,678,313 kW hydro, 9,061,221,000 kWh; pur. 55,240,838 kWh; rev. \$50,512,052. (1942)*†

GRAYS HARBOR COUNTY PUD No. 1, Box 480, Aberdeen, 98520, 206/532-4220, Charles R. Fricke, gen. mgr.; 33,588 met.; gen. 52,520 kW coal (steam turbine), 188,507,941 kWh; pur. 1,277,815,856 kWh; rev. \$41,659,282. (1938)*†

JEFFERSON COUNTY PUD No. 1, Jefferson County Courthouse, Port Townsend 18368, 206/385-5800, John Floyd, interim mgr.; (Jefferson County PUD No. 1 has preliminary permits for investigating two hydroelectric sites. It is currently studying these sites in conjunction with Tacoma (Wash.) Department of Public Utilities, with whom there is a joint agreement for ownership, construction and operation.*)

KITTITAS COUNTY PUD No. 1, 1400 E. Vantage Hwy., Ellensburg, 98926, 509/925-3164, Floyd M. Weir, mgr.; 1,795 met.; no gen.; pur. 41,719,124 kWh; rev. \$1,671,782. (1936)*

Klickitat County PUD No. 1, 1313 S. Columbus Ave., Goldendale, 98620, 509/773-5891, Alexander Thomson, gen. mgr.; 8,107 met.; no gen.; pur. 221,514,485 kWh; rev. \$7,598,389. (1938)*

LEWIS COUNTY PUD No. 1, 321 NW Pacific Ave., Box 330, Chehalis, 98532, 206/748-9261, Gary H. Kalich, mgr.; 21,319 met.; gen. 600 kW hydro; 1,120,800 kWh; pur. 660,101,463 kWh; rev. \$21,882,147. (1936)*

MASON COUNTY PUD No. 1, N21971 Hwy 101, Shelton, 98584, 206/877-5249, John P. Robertson, mgr.; 3,685 met.; no gen.; pur. 50,191,945 kWh; rev. \$2,581,855. (1936)*

MASON COUNTY PUD No. 3, Box 490, Shelton, 98584, 206/426-8255, Edwin E. Blakemore, mgr.; 22,135 met.; no gen.; pur. 387,212,093 kWh; rev. \$16,491,436. (1939)*

McCLEARY Power and Light, Box 360, 98557, 206/495-3220, Richard Jatne, mayor; 831 met.; no gen.; pur. 31,911,192 kWh; rev. \$1,155,235. (1948)*

MILTON, Town of, Box "D," 98354, 206/922-8733, Dale Jones, pub. wks. dir.; 1,523 met.; no gen.; sales 34,879,600 kWh; rev. \$1,373,045. (1945)*

OKANOGAN COUNTY PUD No. 1, Box 912, 98840, 509/422-3310, Harlan Warner, mgr.; 17,221 met.; no gen.; pur. 497,165,454 kWh; rev. \$12,975,299. (1945)*

PACIFIC COUNTY PUD No. 2, Box 472, Raymond, 98577, 206/942-2411, R. A. Mergens, interim mgr.; 13,226 met.; no gen.; pur. 226,516,996 kWh; rev. \$8,427,512. (1940)*

PEND OREILLE COUNTY PUD No. 1, Box 190, Newport, 99156, 509/447-3137, Jim McCampbell, mgr.; 3,813 met.; gen. 60,600 kW hydro, 490,533,440 kWh; pur. 15,413,000 kWh; rev. \$3,492,922. (1948)*

PORT ANGELES, City Light, 240 W. Front, Box 1150, 98362, 206/457-0411, ext. 185, Rob Orton, dir.; 8,458 met.; no gen.; pur. 672,099,400 kWh; rev. \$19,319,907. (1893)*

RICHLAND, City of, 505 Swift Blvd., Box 190, 99352, 509/943-9161, J. Keith Sedore, energy serv. dir.; 14,228 met.; no gen.; pur. 588,215,152 kWh; rev. \$18,855,481. (1958)*

RUSTON Elec. Util., 5117 N. Winnifred St., Ruston (Tacoma), 98407, 206/759-3544, Hubert Glenn Roberts, supt.; 426 met.; no gen.; pur. 4,938,570 kWh; rev. \$86,048. (1928)*

SEATTLE City Light, 1015 Third Ave., 98104, 206/684-3000, Randall W. Hardy, supt.; 306,049 met.; gen. 1,843,054 kW, 1,706,670 hydro, 30,000 oil (steam turbine), 106,384 kW coal (steam turbine), 7,096,242,000 kWh; pur. 1,486,353,013 kWh; rev. \$239,840,854. (1902)*†

SKAMANIA COUNTY PUD No. 1, Box 500, Carson, 98610, 509/427-5126, William F. Yee, mgr.; 4,029 met.; no gen.; pur. 109,533,059 kWh; rev. \$3,823,062. (1938)*†

SNOHOMISH COUNTY PUD No. 1, Box 1107, Everett, 98206, 206/258-8211, Charles Earl, mgr.; 171,098 met.; gen. 216,800 kW, 105,000 kW coal (steam turbine), 111,800 kW hydro, 779,207,000 kWh; pur. 3,979,439,031 kWh; rev. \$182,706,000. (1949)*†

STEILACOOM, Town of, 1715 Lafayette, 98388, 206/581-1900, Fred Wilmet, town admin.; 2,281 met.; no gen.; pur. 37,798,080 kWh; rev. \$1,494,000. (1914)*

SUMAS, City of, Cherry St., Box 9, 98295, 206/988-5711, Lawrence Silvis, util. supt.; 363 met.; no gen.; pur. 8,606,432 kWh; rev. \$3,686,000. (est. 1934)*

TACOMA, City of, Dept. of Pub. Util., Light Div., Box 11007, 3628 S. 35th St., 98411, 206/383-2471, P. Mark

Crisson, supt., light div.; 113,681 met.; gen. 812,200 kW, 112,000 coal (steam turbine), 700,200 kW hydro, 2,103,149,000 kWh; pur. 3,426,451,962 kWh; rev. \$101,119,758. (1893)*

VERA WATER AND POWER DISTRICT No. 15, N. 601 Evergreen Rd., Box 630, Spokane, 99037-0630, 509/924-3800, Joseph W. Custer, gen. mgr.; 5,642 met.; no gen.; pur. 151,956,210 kWh; rev. \$4,662,843. (1938)*

WAHIAKUM COUNTY PUD No. 1, Box 248, Cathlamet, 98612, 206/795-3266, Charles W. Weber, mgr.; 1,824 met.; no gen.; pur. 30,570,808 kWh; rev. \$1,356,037. (1940)*

WATERVILLE, Town of, Box 580, Chelan, 98858, 509/745-8871, Carl E. Koenig, supt.; 538 met.; no gen.; pur. 14,538,000 kWh; rev. \$312,816. (1902)*

WHATCOM COUNTY PUD, 215 Mason Bldg., Bellingham, 98225, 206/733-5810, Frank Spisak, mgr.; 1 met, no gen.; pur. 125,927,980 kWh; rev. \$3,025,983. (1937)*

WEST VIRGINIA

NEW MARTINSVILLE Elec. Dept., 200 Leap St., 26155, 304/455-3474, W. L. Drennen, mgr.; 1,895 met.; no gen.; pur. 27,551,510 kWh; rev. \$1,384,000. (1929)*†

PHILIPPI, Mun. Elec. System, 108 N. Main St., 26416, 304/457-3701, Joseph P. Mattaliano, city mgr.; 1,682 met.; no gen.; pur. 27,835,200 kWh; rev. \$1,381,498. (1932)*†

WEST VIRGINIA PUBLIC ENERGY AUTHORITY, Room R151, State Capitol, Charleston, W. Va., 25305, 304/348-3255, Michael A. Fotos III, dir. (1985) (Authority has begun license application for development of coal-fired fluidized-bed-combustion plants totalling 1,200 MW in north central West Virginia. Projected start of construction late 1989, with operation of first unit in late 1992.)

WISCONSIN

ALGOMA Util. Comm., 520 Parkway Ave., 54201, 414/487-5556, Roland C. LeCloux, supt.; 1,796 met.; no gen.; pur. 31,345,000 kWh; rev. \$1,699,716. (1903)*†

ARCADIA Elec. Util., 115 S. Jackson St., 54612, 608/323-7347, Ronald L. Darbo, supt.; 1,163 met.; gen. 9,143 kW, 6,090 kW dual-fuel (eng.), 3,053 kW oil (eng.), 371,840 kWh; pur. 32,135,257 kWh; rev. \$1,404,754. (1903)⁷

ARGYLE Mun. Elec. & Water Dept., 53504, 608/543-3335, Rick Phillipson, supt.; 415 met.; gen. 1,540 kW oil-fired eng.; 50 kW hydro; 216,360 kWh; pur. 5,037,400 kWh.⁵

BANGOR Mun. Util., Box 130, 54614, 608/486-2151, Wesley Kjome, mgr.; 1,328 met.; no gen.; sales 30,000,000 kWh; rev. \$1,495,538.⁷

BARRON Light & Water Dept., 1303 E. Division Ave., 54812, 715/537-3855, David Hoff, util. supt.; 1,509 met.; gen. 4,412 kW, 4,340 kW oil (eng.), 72 kW hydro, 396,720 kWh; pur. 30,479,000 kWh; rev. \$1,488,688. (1908)*⁷

BELMONT Light & Water Util., 222 Mound Ave., 53510, 608/762-5142, Dan Van Natta, pub. wks. dir.; 419 met.; no gen.; pur. 5,575,200 kWh; rev. \$280,307. (1900)⁷

BENTON, Light & Water Util., Main St., Box 91, 53803, 608/759-3721, Melvin Kreul, village electrician; 426 met.; no gen.; pur. 4,716,800 kWh; rev. \$289,795.⁷

BLACK EARTH Elec. Util., 1210 Mills St., 53515, 608/767-2563, Dwayne Garfoot, dir. of pub wks.; 907 met.; no gen.; pur. 10,742,400 kWh, rev. \$645,316.⁷

BLACK RIVER FALLS Mun. Utils., 119 N. Water St., 54615, 715/284-9463, Loren Radcliffe, util. adm.; 2,233 met.; gen. 4,140 kW, 3,210 kW oil-fired, 930 kW hydro, 3.3 million kWh; pur. 33,496,000 kWh; rev. \$1,941,332. (1904)*⁵

BLOOMER Elec. Util., 1503 Main St., 54724, 715/568-3032, Charles H. Cole, mgr.; 1,616 met.; no gen.; sales 37,379,000 kWh; rev. \$1,755,476. (1908)⁷

BOSCOBEL Mun. Utils., 240 Commercial Row, 53805, 608/375-5429, Bruce Folbrecht, mgr.; 1,593 met.; no gen.; pur. 26,283,764 kWh; rev. \$1,411,101. (1898)*⁷

BRODHEAD Water & Light Comm., 1108 11th St., 53520, 608/897-2138, Carroll Shearor, supt.; 1,593 met.; no gen.; pur. 27,121,595 kWh; rev. \$1,308,078. (1913)⁷

CADOTT Light & Water Mun. Util., Box 37, 54727, 715/289-4282, Leona Hart, sec./treas.; 610 met.; no

gen.; pur. 9,808,800 kWh; rev. \$461,913. (1901)⁶

CASHTON Mun. Light & Water, 709 Main St., 54619, 608/654-5160, John Hauser, supt.; 456 met.; gen. 750 kW oil-fired eng., 1,163 kW dual-fuel eng., 5,000 kWh; pur. 5,172,000 kWh; rev. \$265,660. (1909)⁵

CEDARBURG Light & Water Comm., Box 82, 53012, 414/377-1280, Glenn W. Frank, mgr.; 4,678 met.; no gen.; pur. 90,882,000 kWh; rev. \$5,019,574. (1914)*⁷

CENTURIA Mun. Elec. Util., Box 280, 54824, 715/646-2300, Glenn Melin, comm. chmn.; 393 met.; no gen.; pur. 4,613,400 kWh; rev. \$236,878. (1946)⁷

CLINTONVILLE Water & Elec. Util., 64 E. Twelfth St., Box 359, 54929, 715/823-3518, John H. Schroeder, supt.; 3,468 met.; no gen.; pur. 47,180,000 kWh; rev. \$2,370,927.⁵

COLUMBUS Water & Light Dept., 361 N. Water St., 53925, 414/623-5912, John O. Andler, supt.; 2,103 met.; no gen.; pur. 41,601,600 kWh; rev. \$1,968,006. (1899)⁷

CORNELL, City of, 300 Park Rd., 54732, 715/239-3143, Ed Jenneman, util. supv.; 795 met.; no gen.; sales 11,371,000 kWh; rev. \$612,573. (1937)⁷

CUBA CITY Mun. Utils., 108 N. Main, 53807, 608/744-2152, John H. Murphy, city coord.; 731 met.; no gen.; rev. \$645,682. (1921)*⁵

CUMBERLAND Mun. Util., 1265 Second Ave., Box 726, 54829, 715/822-2595, Charles Christensen, gen. mgr.; 1,161 met.; gen. 11,200 kW, 9,200 kW oil-fired (eng.), 2,000 kW dual-fuel (eng.), 237,000 kWh; pur. 25,500,000 kWh; rev. \$1,547,104. (1898)*⁷

EAGLE RIVER, Light & Water Dept., 217 E. Division St., Box 218, 54521, 715/479-8121, Lee McFaul, mgr.; 1,065 met.; no gen.; sales 21,340,800 kWh; rev. \$1,207,141. (1898)*⁷

ELKHORN Light & Water, 9 S. Broad St., Box 920, 53121, 414/723-2910, Gary Hislop, pub. works dir.; 2,573 met.; no gen.; pur. 56,262,000 kWh; rev. \$3,167,916. (1898)*⁷

ELROY Light & Water Util., 102 Liberty St., 53929, 608/462-8245, Royce Lockner, util. mgr.; 911 met.; gen. 9,600 kWh dual-fuel eng.; pur. 16,473,442 kWh; rev. \$675,620. (1899)⁵

EVANSVILLE Water & Light Dept., 31 S. Madison St., 53536, 608/882-5214, Steve Glissendorf, supt.; 1,182 met.; no gen.; pur. 39,974,000 kWh; rev. \$1,986,000. (1902)⁷

FENNIMORE Water & Light, 860 Lincoln Ave., 53809, 608/822-6119, Charles J. Leuck, dir. pub. wks.; 1,158 met.; gen. 2,123 kW (eng.), 83,500 kWh; pur. 21,785,515 kWh; rev. \$1,058,233. (1904)*⁷

FLORENCE Water & Light, Box 109, 54121, 715/528-3330, Robert Friberg, supt.; 795 met.; no gen.; pur. 8,205,558 kWh; rev. \$465,732. (1898)*⁷

GRESHAM Mun. Util., Box 50, 54128-0050, 715/787-3244, Alvin Christ, supt.; 897 met.; gen. 825 kW hydro, 4,656,620 kWh; pur. 5,077,800 kWh; rev. \$457,719. (1928)⁷

HARTFORD Elec., 109 Main, 53027, 414/673-4000, L. M. Darin, dir. of pub. works; 3,045 met.; no gen.; pur. 61,805,040 kWh; rev. \$3,449,763. (1912)*⁵

HAZEL GREEN Elec. Util., Box 367, 53811, 608/854-2953, James L. Kolbe, dir., pub. wks.; 527 met.; no gen.; pur. 5,900,800 kWh; rev. \$336,146. (1908)⁶

HUSTISFORD Mun. Utility, 210 S. Lake St., 53034, 210 S. Lake St., 53034, 414/349-3650, Richard Kirchoff, supt.; 1,036 met.; no gen.; pur. 14,207,400 kWh; rev. \$776,279.⁷

JEFFERSON Water & Elec. Dept., 121 W. Racine St., 53549, 414/674-3313, Jerry Duchow, mgr.; 3,249 met.; no gen.; pur. 102,539,516 kWh; rev. \$4,894,543. (1901)*⁵

JUNEAU Util. Comm., Box 163, 53039, 414/386-2521, Michael J. Laue, dir.; 846 met.; no gen.; pur. 22,626,000 kWh; rev. \$1,175,622. (1914)⁷

KAUKAUNA Elec. & Water Dept., 777 Island St., 54130, 414/766-5721, Ernest J. Mullen, gen. mgr.; 9,195 met.; gen. 42,100 kW, 6,000 kW oil (eng.), 20,000 kW gas (combust. turbine), 16,100 kW hydro, 108,827,510 kWh; pur. 435,271,000 kWh; rev. \$19,824,733. (1912)*⁷

KIEL, City of, Utils., 705A Washington St., Box 98, 53042, 414/894-2669, Richard W. Wright, supt.; 1,634 met.; no gen.; pur. 41,674,000 kWh; rev. \$2,177,463. (1914)*⁷

LA FARGE Mun. Elec. Co., Box 838, 54639, 608/625-2333, Cecil Rolfe,

mgr.; 758 met.; no gen.; pur. 4,937,461 kWh; rev. \$285,805.⁵

LAKE MILLS Light & Water, 101 Church St., 53551, 414/648-2344, Michael Lewis, city mgr.; 2,929 met.; no gen.; pur. 46,879,191 kWh; rev. \$2,498,581. (1911)*⁷

LODI Light & Water Util., City Hall, 113 S. Main St., 53555, 608/592-3782, Rodney Maier, supt.; 1,022 met.; no gen.; pur. 13,747,200 kWh; rev. \$716,449. (1894)*⁶

MANITOWOC Pub. Utils., 1303 S. Eighth St., 54220, 414/683-4600, Arlyn S. Libal, gen. mgr.; 14,826 met.; gen. 79,500 kW, 69,000 kW coal (steam turbine), 10,500 kW dual-fuel (eng.); 122,528,000 kWh; pur. 259,149,000 kWh; rev. \$17,284,299. (1914)*⁷

MARSHFIELD Elec. & Water Dept., 2000 S. Roddis Ave., Box 670, 54449, 715/387-1195, Lolly Tiachac, admin. asst.; 10,481 met.; gen. 35,000 kW, 29,000 kW coal (steam turbine), 6,000 kW gas (steam turbine); 84,283,700 kWh; pur. 181,866,000 kWh; rev. \$13,088,048. (1904)*⁷

MAZOMANIE, Village of, 133 Crescent St., Box 26, 53560, 608/795-2556, Dean Sanftleben, dir. pub. works; 655 met.; no gen.; pur. 7,696,800 kWh; rev. \$409,259. (1894)⁷

MEDFORD Elec. Util., 330 S. Whelen Ave., 54451, 715/748-3211, William Thomas, pres.; 2,586 met.; no gen.; pur. 74,893,393 kWh; rev. \$3,218,058. (1944)*⁷

MENASHA Elec. & Water Utils., Box 340, 54952, 414/729-5180, Robert E. Hogan, gen. mgr.; 6,532 met.; gen. 29,180 kW coal (steam turbine), 42,858,500 kWh; pur. 86,133,000 kWh; rev. \$7,302,992. (1905)*⁷

MERRILLAN Mun. Elec. Util., 101 S. Main St., Box 70, 54754, 715/333-2332, Ted Meinholdt, util. supt.; 347 met.; pur. 2,826,774 kWh (1904)⁶

MT. HOREB Elec. Util., 138 E. Main St., 53572, 608/437-3084, Irwin K. Bendickson, supt.; 1,900 met.; no gen.; rev. \$1,655,107. (1939)⁶

MUSCODA Light & Water Comm., 109 N. Second St., 53573, 608/739-3390, Jay R. Goers, supt.; 950 met.; no gen.; pur. 14,696,487 kWh; rev. \$753,029. (1907)*⁵

NEW GLARUS Mun. Light & Water, 313 2nd St., 53574, 608/527-2913, Gordon Henning, supt.; 918 met.; no gen.; pur.

15,307,200 kWh; rev. \$725,989. (1902)⁷

NEW HOLSTEIN Pub. Util., 2110 Washington St., 53061, 414/898-5776, Ernest R. Dyer Sr., supt.; 2,005 met.; no gen.; pur. 51,000,000 kWh; rev. \$2,796,410. (1912)*†⁷

NEW LISBON Mun. Light & Water Dept., 218 E. Bridge St., 53950, 608/562-3103, Lynn Willard, mayor; 740 met.; gen. 106,600 kWh; pur. 12,642,458; rev. \$623,427.⁷

NEW LONDON Utils., 400 E. North Water St., 54961, 414/982-2650, Stephen M. Thompson, util. mgr.; 2,936 met.; no gen.; pur. 130,415,318 kWh; rev. \$6,148,353. (1903)*†⁷

NEW RICHMOND City Util., 156 E. First St., 54017, 715/246-3628, Dennis Horner, mgr.; 2,329 met.; no gen.; pur. 44,734 kWh; rev. \$2,018,824. (1890)*†⁷

OCONOMOWOC Utils., 174 E. Wisconsin Ave., 53066, 414/569-2198, Carl Melchior, dir.; 5,612 met.; no gen.; pur. 120,820,900 kWh; rev. \$6,517,233. (1900)*†⁷

OCONTO FALLS Water & Light Comm., 104 S. Franklin, 54154, 414/846-3575, Gary Larry McGray, comm. pres.; 1,291 met.; no gen.; pur. 20,352,728 kWh; rev. \$1,130,533. (1933)*†⁷

PARDEEVILLE Elec. Util., 124 Lake St., 53954, 608/429-3054, Larry Brown, dir. pub. wks.; 945 met.; gen. 50 kW hydro, 258,920 kWh; pur. 14,807,240 kWh; rev. \$689,379.⁷ (1945)⁷

PLYMOUTH Utils., 12 S. Milwaukee St., Box 277, 53073, 414/893-1471, John T. MacKinnon, mgr.; 5,413 met.; no gen.; pur. 125,784,000 kWh; rev. \$6,038,000. (1895)*†⁷

PRAIRIE DU SAC Mun. Elec. Util., 560 Park Ave., 53578, 608/643-2421, Dorothy Bostad, village clerk; 1,825 met.; no gen.; pur. 14,542,200 kWh; rev. \$773,486. (1918)⁵

PRINCETON Light & Water, 438 W. Main St., 54968, 414/295-6612, Donna Schevers, city clk.; 857 met.; no gen.; pur. 10,245,600 kWh; rev. \$579,102. (1902)⁶

REEDSBURG Utility, 344 S. Willow, 53959, 608/524-4381, Robert D. Utley, supt.; 2,725 met.; no gen.; pur. 96,370,000 kWh; rev. \$4,335,160. (1894)⁷

RICE LAKE Elec. Util., 320 W. Coleman St., 54868,

715/234-7004, Larry Skoug, supt.; 4,000 met.; no gen.; pur. 96 million kWh; rev. \$4.3 million. (1918)⁵

RICHLAND CENTER, Box 29, 53581, 608/647-4448, Richard J. Steiner, admin.; 2,746 met.; gen. 7,500 kW coal (steam turbine), 22,736,000 kWh; pur. 46,628,000 kWh; rev. \$3,860,453. (1904)*†⁷

RIVER FALLS Mun. Util., 125 E. Elm St., 54022, 715/425-6715, Kenneth DeVillers, util. adm.; 3,568 met.; gen. 13,032 kW, 8,265 kW dual-fuel (combust. turbine), 4,392 kW oil (combust. turbine), 375 kW hydro, 2,416,480 kWh; pur. 70,537,200 kWh; rev. \$3,676,741. (1900)*†⁷

SAUK CITY Utils., 806 Water St., 53583, 608/643-8336, or 643-3932, Donald Moen, util. supt.; 1,333 met.; no gen.; pur. 24,789,600 kWh; rev. \$1,227,333. (1909)⁶

SHAWANO Mun. Utils., 122 N. Sawyer St., 54166, 715/526-3131, Lloyd (Lee) A. Ebert, gen. mgr.; 4,420 met.; no gen.; pur. 140,956,400 kWh; rev. \$6,941,823. (1900)*†⁷

SHEBOYGAN FALLS Util., 511 Adams St., 53085, 414/459-4040, Robert Selchert, supt.; 2,783 met.; no gen.; pur. 126,492,000 kWh; rev. \$4,261,119. (1916)⁷

SHULLSBURG Elec. Util., 112 S. Gratiot St., Box 580, 53586, 608/965-4901, Ronald Schardt, electr.; 710 met.; no gen.; pur. 8,187,554 kWh; rev. \$483,853. (1937)⁵

SLINGER Utils., Box 227, 53086, 414/644-5265, Richard Kohl, pres.; 812 met.; no gen.; pur. 13,850,860 kWh; rev. \$778,333. (1911)*†⁷

SPOONER Mun. Util., 515 Summit St., 54801, 715/635-8769, Melvin E. Anderson, supt.; 1,400 met.; no gen. (1905)⁷

STOUGHTON Elec. Util., 211 Water St., Box 383, 53589, 608/873-3379, Robert P. Kardasz, supt. of utils.; 5,479 met.; no gen.; pur. 82,125,380 kWh; rev. \$4,134,493. (1890)*†⁷

STRATFORD Mun. Water & Elec. Util., Box 12, 54484, 715/687-4118, W. F. Lang, supt.; 691 met.; no gen.; pur. 8,168,713 kWh; rev. \$520,236. (1920)⁷

STURGEON BAY Combined Utils., 230 E. Vine St., 54235, 414/743-5542, William Baudhuin, gen. mgr.; 6,667 met.; no gen.; pur. 123,822,000 kWh; rev. \$6,747,904. (1904)*†⁷

SUN PRAIRIE Water & Light Comm., 125 W. Main St., Box 385, 53590, 608/837-5500, Larry Bocock, supt.; 5,584 met.; no gen.; pur. 99,246,000 kWh; rev. \$4,651,462. (1910)*†⁷

TREMPEALEAU Mun. Elec. & Water Util., 50 E. Third St., 54661, 608/534-6434, Walter Hanson, line-man; 708 met.; no gen.; pur. 8,651,299 kWh; rev. \$397,813. (1915)⁷

TWO RIVERS Water & Light Dept., Box 87, 54241, 414/793-5549, William C. Pappathopoulos, dir. util.; 5,674 met.; no gen.; pur. 74,634,000 kWh; rev. \$3,960,162. (1901)*†⁷

VIOLA Mun. Elec. Util., Box 38, 54664, 608/627-1829, Kirby Hamilton, mgr.; 325 met.; gen. 1,076 kW oil-fired eng.; 11,400 kWh.⁵

WATERLOO Water & Light Comm., 122 S. Monroe St., 53594, 414/478-2260, John Foley, supt.; 1,468 met.; no gen.; sales 38,900,000 kWh; rev. \$2,105,348. (1908)*†⁷

WAUNAKEE, 205 N. Klein Dr., 53597, 608/849-4111, Edward L. Brockner, supt.; 2,024 met.; no gen.; pur. 36,913,577 kWh; rev. \$1,875,465. (1915)*†⁷

WAUPUN Pub. Utils., 220 N. Forest St., 53963, 414/324-3556, Albert F. Leu, mgr.; 3,345 met.; no gen.; pur. 61,499,000 kWh; rev. \$2,838,452. (1894)*†⁷

WESTBY Elec. & Water Util., 104 First St., 54667, 608/634-3416, Dean Warren, city works supvr.; 904 met.; no gen.; pur. 16,155,200 kWh; rev. \$756,052. (1915)*†⁷

WHITEHALL Mun. Elec. Util., 1631 Main St., 54773, 715/538-4353, Gary Fromm, elec. supt.; 833 met.; no gen.; pur. 18,227,015 kWh; rev. \$831,948. (1940)*†⁵

WISCONSIN DELLS Elec., 300 LaCrosse St., 53965, 608/253-2542, Kenneth D. Weber, dir. pub. wks.; 1,621 met.; no gen.; pur. 33,622,000 kWh; rev. \$1,610,628. (1894)⁷

WISCONSIN RAPIDS Water Wks. & Lgt. Comm., 221 Sixteenth St. S., 54494, 715/423-6300, Peter D. Prast, gen. mgr.; 10,659 met.; no gen.; pur. 183,714,000 kWh; rev. \$10,013,993. (1890)*†⁷

WONEWOC, Village of, Elec. Util., Box 303, City Hall, 53968, 608/464-3114, Peter A. Carr, sec.; 577 met.; no gen.; pur. 5,492,800 kWh; rev. \$246,186.⁵

WYOMING

BASIN Mun. Light & Water Plant, Box 599, 82410, 307/568-3331, Dick Sanders, supt.; 660 met.; no gen. (1920s)⁷

CODY, City of, 1338 Rumsey Ave., 82414, 307/527-7514, Neal T. Olson, supt., elec. dept., 3,430 met.; no gen.; pur. 56,528,000 kWh; rev. \$2,741,539. (1935)⁷

DEAVER Utils., Box 165, 82421, 307/664-2350, Craig Sorenson, council; 90 met.; no gen.⁷

FORT LARAMIE, Town of, Box 177, 82212, 307/837-2711, Vicki Bowsher, clerk-treas.; 150 met.; no gen.; pur. 1,230,000 kWh; rev. \$68,833.⁷

GILLETTE, City of, Box 3003, 82716, 307/686-5265, Glen M. Taylor, dir. pub. wks.; 7,615 met.; no gen.; pur. 162,460,621 kWh; rev. \$8,314,474. (1915)*†⁶

GUERNSEY, Town of, 81 W. Whalen St., Box 667, 82214, 307/836-2723, Charles M. (Pete) Green, town supt.; 649 met.; no gen.; sales 7,989,000 kWh; rev. \$474,772.*†⁷

LINGLE, Town of, Box 448, 82223, 307/837-2422, Harry Bremer, supt.; 260 met.; no gen.; pur. 2,813,000 kWh; rev. \$148,551.⁷

LUSK, Town of, Box 390, 82225, 307/334-3612, Alvin G. Titchener, supt. pub. wks.; 1,020 met.; no gen.; pur. 12,981,000 kWh; rev. \$563,080. (1919)⁷

PINE BLUFFS, Town of, 1751 Rd. 161, 82082, 307/245-3746, Ronald Spier, supt.; 520 met.; no gen.; pur. 7,993,000 kWh; rev. \$441,883. (approx. 1910)⁷

POWELL, Municipal Distribution, Box 1008, 82435, 307/754-5106, Jack Young, elec. supt.; 2,407 met.; no gen.; pur. 36,329,000 kWh; rev. \$1,991,034. (1921)*†⁷

TORRINGTON, Town of, Elec. Dis. System, Box 250, 82240, 307/532-5666, Vernon L. Norman, mayor; 3,353 met.; no gen.; pur. 58,143,162 kWh; rev. \$1,653,166. (1914)*†⁶

WHEATLAND, Town of, 600 9th St., 82201, 307/322-2962, Robert Meyers, city elec.; 1,893 met.; no gen.; pur. 26,421,000 kWh; rev. \$1,142,794. (1936)⁷

AMERICAN SAMOA

AMERICAN SAMOA POWER

AUTHORITY, Pago Pago, American Samoa, Box PPB, 96799, 684/684-5251, Abe U. Malae, exec. dir.; 6,583 met.; gen. 42,100 kW, 35,700 kW oil (eng.), 6,400 kW oil (combust. turbine), 89,482,200 kWh; rev. \$9,489,612.*†

CANAL ZONE

PANAMA CANAL Commission, Building 66A, APO Miami 34011-5000, phone 011-507-52-4421, Rene Van Hoorde, chief, elec. div.; 2,934 met.; gen. 153,500 kW, 55,000 kW oil, 40,000 kW gas turbine, 58,500 kW hydro, 529 million kWh; pur. 4 million kWh; rev. \$33.5 million. (1914)*

GUAM

GUAM POWER AUTHORITY, Box 2977, Agana, Guam, 96910-2977, 671/477-1900, John M. Benavente, gen. mgr.; 25,748 met.; gen. 178,500 kW, 158,500 kW oil (steam turbine), 20,000 kW oil (eng.), 789.6 billion kWh; pur. none; rev. \$60,869,000. (1968)*

PUERTO RICO

PUERTO RICO ELECTRIC POWER AUTHORITY, Box 4267, San Juan, P.R., 00926, 809/725-4232, Eng. Carlos M. Alvarado, exec. dir.; 1,057,646 met.; gen. 4,143,680 kW, 4,038,400 kW oil (steam turbine), 463,400 kW oil (combust. turbine), 592,000 kW oil (comb. cycle), 2,500 kW oil (eng.), 55,600 kW hydro; 11,297,606,267 kWh; sales 10,024,238,000 kWh; rev. \$1,061,565,000. (1941)*

VIRGIN ISLANDS

VIRGIN ISLANDS WATER AND POWER AUTHORITY, Box 1450, St. Thomas, U.S. Virgin Islands, 00801, 809/774-3552, Raymond L. George, exec. dir.; 40,275 met.; gen. 208,700 kW, 78,900 kW (steam turbine); 107,090 kW gas (combust. turbine); 16,500 kW (eng.); 482,568,000 kWh; sales 372.8 million kWh; rev. \$62,858,000. (1965)*†



RESOURCE MANAGEMENT INTERNATIONAL, INC.

Utility Engineers and Consultants

- POWER SYSTEM PLANNING
- FEASIBILITY STUDIES
- ECONOMIC ANALYSES
- TRANSMISSION AND DISTRIBUTION PLANNING
- CONTRACT NEGOTIATIONS
- RATES AND REGULATORY SERVICES
- FINANCING SUPPORT
- PROJECT AND CONSTRUCTION MANAGEMENT
- EXPERT WITNESSES

Innovative Solutions to Public Power Issues

Contact: Ron Nichols (916) 924-1534
1010 Hurley Way, Suite 500, Sacramento, CA 95825

With Other Offices In:
Phoenix, AZ; Austin, TX; Portland, OR; North Little Rock, AR; and West Palm Beach, FL

A POWERFUL MARKET

Your ad in PUBLIC POWER
magazine reaches:

- All of the nation's 2,203 publicly owned electric utilities.
- All of the 924 rural electric cooperatives.
- All 13 of the federal power agencies.

ORGANIZATIONS OF LOCAL SYSTEMS

JOINT-ACTION AGENCIES

Alabama

ALABAMA MUNICIPAL ELECTRIC AUTHORITY, Drawer 5220, Montgomery, 36103, 205/262-1126; Sewell St. John Jr., Foley, chmn.; Robert W. Claussen, gen. mgr.; 11 members: Alexander City, Dothan, Fairhope, Foley, Lafayette, Lanett, Luverne, Opelika, Piedmont, Sylacauga, Tuskegee. (estbl. 1981)*†

Alaska

THOMAS BAY POWER AUTHORITY, Box 1318, Wrangell, Alaska 99929; 907/874-3834; David Carlson, Petersburg, commission chmn.; Warren Edgley, gen. mgr.; 8 staff; operates 20-MW Tyee Lake Project (hydro) and 82 miles 138-kV transmission line, including 12 miles by submarine cable. Project owned by state of Alaska. (estbl. 1986)

Arizona

ARIZONA POWER POOLING ASSOCIATION, Benson, Ariz. 85602; 602/723-3700; A.J. Faul, Coolidge, pres., Rt. 1, Box 69, Coolidge, Ariz. 85228; 3 members: Mesa, Electrical District No. 2 of Pinal County, Arizona Electric Power Cooperative.*

California

CENTRAL CALIFORNIA POWER AGENCY #1, Box 15830, Sacramento, Cal. 95852-1830; 916/452-6200 or 3211; Frank Hahn, chmn.; Lee Keilman, dir.; interests in steam lease holdings in California Geysers area, constructing 130-MW geothermal power plant; 3 members: Sacramento Municipal Utility District, Modesto Irrigation District, Santa Clara. (estbl. 1983).

M-S-R PUBLIC POWER AGENCY, Box 4060, Modesto, Cal. 95352; 209/578-1212; Sue Lasher, Santa Clara, chmn.; Kenneth McKinney, gen. mgr.; 143 MW of San Juan Generating Station Unit 4, dry steam production at Northern California exploratory drilling site; participation in Mead-Phoenix, Mead-Adelanto and Palo Verde-Devers No. 2 transmission studies; participant in the Inland Intertie Transmission project; 3 members: Modesto Irrigation District, Santa Clara, Redding.*

NORTHERN CALIFORNIA POWER AGENCY, 180 Cirby Way, Roseville, Cal. 95678, 916/781-3636; Jack Sutorius, Palo Alto, chmn.; Michael W. McDonald, gen. mgr.; \$1.4 billion bonds sold; 110-MW Geothermal plant No. 1 operational; 110-MW Geothermal plant No. 2 operational; 205-MW Hydroelectric Project No. 1 under construction; five combustion turbine projects (each 24.8 MW) operational; coparticipant in 230-kV Geothermal Public Power Line (GPTL); 13 members: Alameda, Biggs, Gridley, Healdsburg, Lodi, Lompoc, Palo Alto, Redding, Roseville, Santa

Clara, Ukiah, Plumas-Sierra Cooperative, Turlock Irrigation District. (estbl. 1968)*

SOUTHERN CALIFORNIA PUBLIC POWER AUTHORITY, 613 E. Broadway, Glendale, Cal. 91205; 818/956-2045; Gale A. Drews, pres.; Arthur T. Devine, exec. dir.; 5.91 percent (225 MW) of Palo Verde Nuclear Project, southern transmission system of the Intermountain Power Project licensing and feasibility studies in progress for Mead-Phoenix direct current transmission line; 11 members: Anaheim, Azusa, Banning, Burbank, Colton, Glendale, Imperial Irrigation District, Los Angeles, Pasadena, Riverside, Vernon. (estbl. 1980)*

SOUTHERN CALIFORNIA UTILITY POWER POOL, c/o Los Angeles Dept. of Water and Power, 111 N. Hope St., Room 1255, Box 111, 90051, 213/481-6003; Raymond C. Burt, Los Angeles, exec. comm. chmn.; projected: 8,351 MW (members' total capacity); 4 members: Burbank, Glendale, Los Angeles, Pasadena. (estbl. 1982)

TRI DAM POWER AUTHORITY, Star Route Box 1303, Sonora, Cal. 95370; 209/965-3331; D. B. Thompson, exec. sec./gen. mgr.; gen. 16.2 MW hydro, 66 million kWh; rev. \$2,934,641; 2 members: Oakdale, South San Joaquin irrigation districts. (estbl. 1982)*

TRANSMISSION AGENCY OF NORTHERN CALIFORNIA (TANC), Box 661030, Sacramento, Cal., 95866, 916/924-1196; James W. Beck, chmn.; Lloyd Harvego, exec. asst.; 15 members: Alameda, Biggs, Gridley, Healdsburg, Lodi, Lompoc, Modesto Irrigation District, Palo Alto, Redding, Roseville, Sacramento Municipal Utility District, Santa Clara, Turlock Irrigation District, Ukiah, Plumas-Sierra Rural Elec. Co-op. (estbl. 1984)

Colorado

ARKANSAS RIVER POWER AUTHORITY, 103A E. Elm, Box 70, Lamar, Colo. 81052; 303/336-3496; John Lackey, Raton, N.M., pres.; James M. Henderson, gen. mgr.; pur. 265,522,662 kWh, rev. \$8,426,772; projected: 80 MW-120 MW coal plant; 8 members: Holly, Lamar, La Junta, Las Animas, Springfield, Trinidad, Walsenburg, Colo., and Raton, N.M.*

PLATTE RIVER POWER AUTHORITY, Timberline & Horsetooth Roads, Fort Collins, Colo. 80525, 303/226-4000; Bob Dekker, Estes Park, chmn.; Thaine Michie, gen. mgr.; current: 409,000 kW coal, gen. 2,517,331,000 kWh, pur. 1,055,792,000 kWh; rev. \$144,746,972; 4 members: Estes Park, Fort Collins, Longmont, Loveland. (estbl. 1973)*

Connecticut

CONNECTICUT MUNICIPAL ELECTRIC ENERGY COOPERATIVE, 268 Thomas Rd., Groton, Conn. 06340, (30 Stott Rd., Norwich, Conn. 06360, after March), 203/446-0620; Francis W. Brown, chmn.; Maurice R. Scully, exec. dir.; 21 staff; sales 851,690,000 kWh; peak demand 136.6 MW; \$108.86 million bonds issued; life-of-unit contracts to 164 MW; 70 MW nuclear, 75 MW oil-fired, 12 MW pumped storage, 13 MW hydro; 12-MW share of Millstone 3 nuclear unit; Hydro-

Quebec interconnection 1 percent participant; designated bargaining agent for state of Connecticut for hydro power from New York Power Authority, pur. 8 MW for 3 participants: Groton, Norwich, Jewett City. (estbl. 1976)*†

Delaware

DELAWARE MUNICIPAL ELECTRIC CORP., care of City of Newark, Box 390, Newark, Del. 19711; 302/366-7080; John Frederick, Milford, bd. chmn.; Albert K. Martin, Newark, pres.; 6 members: Clayton, Middletown, Milford, Newark, New Castle, Smyrna. (estbl. 1979)

Florida

FLORIDA MUNICIPAL POWER AGENCY, 7201 Lake Ellenor Drive, Suite 100, Orlando, Fla. 32809; 305/859-7310; Dean Shaw, Ocala, chmn.; Calvin R. Henze, gen. mgr.; 15 staff; 75-MW share in 850-MW St. Lucie No. 2 nuclear unit, 110.5-MW share in 415-MW Stanton coal unit, \$689 million bonds; 27 members: Alachua, Bartow, Bushnell, Clewiston, Fort Meade, Fort Pierce, Gainesville, Green Cove Springs, Havana, Homestead, Jacksonville Beach, Key West, Kissimmee, Lake Worth, Leesburg, Moore Haven, Mount Dora, Newberry, New Smyrna Beach, Ocala, St. Cloud, Sebring, Starke, Tallahassee, Vero Beach, Wauchula, Williston. (estbl. 1978)*

Georgia

MUNICIPAL ELECTRIC AUTHORITY OF GEORGIA, 1470 Riveredge Pkwy. NW, Atlanta, 30328; 404/952-5445; Gayle Manley, Albany, chmn.; Donald L. Stokley, pres. and gen. mgr.; 65 staff; current: 286 MW of 1,614-MW Hatch nuclear plant, 489 MW of 1,620-MW Scherer coal plant, 261 MW of 1,730-MW Wansley coal plant, 262 MW of 1,150-MW Vogtle nuclear plant, (all based on nominal plant ratings), purchase approx. 2.2 billion kWh from Georgia Power Co.; approx. 6.0 billion kWh sales; \$3.2 billion financing; projected: 262 MW of 1,150-MW Vogtle nuclear plant; 48 members: Adel, Albany, Barnesville, Blakely, Brinson, Buford, Cairo, Calhoun, Camilla, Cartersville, College Park, Commerce, Covington, Crisp County, Doerun, Douglas, East Point, Elberton, Ellaville, Fairburn, Fitzgerald, Forsyth, Fort Valley, Grantville, Griffin, Hogansville, Jackson, LaFayette, LaGrange, Lawrenceville, Mansfield, Marietta, Monroe, Monticello, Moultrie, Newnan, Norcross, Oxford, Palmetto, Quitman, Sandersville, Sylvania, Sylvester, Thomaston, Thomasville, Washington, West Point, Whigham. (estbl. 1975)*

Illinois

ILLINOIS MUNICIPAL ELECTRIC AGENCY, 102 Wilmet Road, Suite 370, Deerfield, Ill. 60015; 312/940-7664; Gary Zimmerman, gen. mgr.; Glenn E. Tadlock, Rantoul, pres.; 220,000 kW peak demand; 146,000 kW gas/oil gen.; pur. 868 million kWh; rev. \$36,294,137; 29 members: Altamont, Bethany, Breese, Bushnell, Cairo, Carlyle, Carmi, Casey, Chatham, Farmer City, Flora, Freeburg, Ladd, Marshall, Mascoutah, Metropolis, Naperville, Oglesby, Peru, Princeton, Rantoul, Riverton, Rochelle, Rock Falls, Spring-

* denotes APWA membership.

† denotes DEED (Demonstration of Energy-Efficient Developments) membership.

field, St. Charles, Sullivan, Waterloo, Winnetka. (establ. 1984)*

Indiana

INDIANA MUNICIPAL POWER AGENCY, 5920 Castleway West Dr., Box 50700, Indianapolis, Ind. 46250; 317/849-3242; Frank Rudolph, bd. chmn.; Raj Rao, gen. mgr.; sales: \$137,188,253, 3,237,704,212 kWh; revenue bonds outstanding: \$207,590,000; 25 percent (156 MW) participation in Gibson No. 5 unit; 26 members: Anderson, Bargersville, Centerville, Columbia City, Covington, Crawfordsville, Darlington, Flora, Frankfort, Frankton, Greendale, Greenfield, Jamestown, Lawrenceburg, Lebanon, Linton, Middletown, Paoli, Pendleton, Peru, Rensselaer, Richmond, Rising Sun, Scottsburg, Tipton, Washington. (estbl. 1980)*

Iowa

NORTH IOWA MUNICIPAL ELECTRIC COOPERATIVE ASSOC., Box 445, Hwy. 169 and 5th Ave. N., Humboldt, Iowa 50548; 515/332-2981; Richard A. Johnson, Humboldt, exec. vice pres.; Ronald L. Deiber, Alta, pres.; coordination of members regarding purchase/sale of power, load forecasting, future supply sources, monthly power billings; 15 members: Alta, Bancroft, Cedar Falls, Coon Rapids, Forest City, Graettinger, Grundy Center, Laurens, Milford, New Hampton, Spencer, Sumner, Waverly, Webster City, West Bend. (estbl. 1965)*

SOUTH IOWA MUNICIPAL ELECTRIC COOPERATIVE, 321 N. First St., Winterset, Iowa 50273; 515/462-2454, -2152; George C. Berry, Winterset, pres.; 19 members: Brooklyn, Cascade, Corning, Earlville, Fontanelle, Gowrie, Grand Junction, Greenfield, Indianola, Independence, Lamoni, La Porte, Lenox, Oden, Preston, State Center, Stuart, Villisca, Winterset. (estbl. 1967)

MISSOURI BASIN MUNICIPAL ELECTRIC COOPERATIVE ASSOC., 125 Central Ave., S.E., Orange City, Iowa 51041; 712/737-4885; Harold Schiebout, Sioux Center, pres.; Larry Milroy, Hawarden, vice pres.; Dean E. Meyer, Hartley, sec./treas.; has capacity rights to 40 MW transmission capacity through Northwest Iowa Power Cooperative distribution system; 18 members: Alton, Denison, Fontanelle, Hartley, Hawarden, Kimballton, Lake Park, Manilla, Orange City, Paulina, Primghar, Remsen, Rock Rapids, Sanborn, Shelby, Sioux Center, Wall Lake, Woodbine. (estbl. 1978)

WESTERN IOWA MUNICIPAL ELECTRIC COOPERATIVE ASSOC., 223 Main St., Manning, Iowa 51455; 712/653-3214; Eddie Fischer, Manning, pres.; Donald Krause, Hinton, vice pres.; 17 MW of Neal 4 coal-fired plant; 6 members: Anthon, Aurelia, Hinton, Manning, Mapleton, Onawa. (estbl. 1973)

Kansas

KANSAS MUNICIPAL ENERGY AGENCY, Box 2179, 6950 Squibb Rd., Suite 414, Mission, Kan. 66202; 913/677-2885; George Marstall, Ottawa, pres.; Gilbert E. Harrison Jr., gen. mgr.; 5 staff; 37.5-MW life-of-unit share of Nearman coal plant, 4 MW of Holcomb coal plant, 11.2 MW Southwestern Power Administration hydro peaking power, interconnection of 6 members into the grid; 32 members: Augusta, Baldwin City, Belleville, Burlington, Chanute, Clay Center, Colby, Ellis, Erie, Fredonia, Garnett, Girard, Greensburg, Herington, Hoisington, Iola, Larned, Meade, Mulvane, Neodesha, Norton, Oberlin, Osawatomie, Ottawa, Pratt, St. Francis, Sharon

Springs, Sterling, Stockton, Washington, Wellington, Winfield. (estbl. 1978)*

Louisiana

LOUISIANA ENERGY AND POWER AUTHORITY, 315 Johnston St., Lafayette, La. 70501; 318/269-4046; Cedric S. LaFleur, Morgan City, chmn.; Sylvan Richard, mgr.; 17 staff; 20 percent share in 530-MW coal-fired Rodemacher No. 2 unit, power supplier for members via purchase of members' power and sell-back of lowest-cost power; Energy Control and Dispatch System Facility completed in 1987; projected: Louisiana lignite generation. 17 members: Abbeville, Alexandria, Erath, Gueydan, Houma, Jonesville, Kaplan, Lafayette, Minden, Morgan City, Natchitoches, New Roads, Plaquemine, Rayne, St. Martinville, Welsh, Winnfield. (estbl. 1980)*

Maine

DIRIGO ELECTRIC COOPERATIVE, INC., 2 Central Plaza, Augusta, Maine 04330; 207/622-4406; John L. Clark, Houlton, pres.; David Honey, vice pres.; James Dean, sec.; W. Milo Haskins, Lutece, treas.; Gordon L. Weil, gen. mgr.; 11 members: Eastern Maine Electric Co-op., Fox Islands Electric Co-op., Houlton, Isle au Haut, Kennebunk, Lubec, Madison, Matinicus, Swans Island Electric Co-op., Union River Electric Co-op., Van Buren. 1 associate member: Stonington & Deer Isle Power. (estbl. 1978)*

Massachusetts

MASSACHUSETTS MUNICIPAL WHOLESALE ELECTRIC CO., Stony Brook Energy Center, Box 426, Ludlow, Mass. 01056; 413/589-0141; George Leary, Holyoke, chmn.; Richard K. Byrne, gen. mgr.; 151 employees; 1986 electricity sales for resale—\$134,899,158 (2,757 million kWh); debt service and other revenues \$34,754,294; revenue bonds outstanding (6/30/87) \$1.261 million; own and operate 311 MW of 343-MW Stony Brook Intermediate Unit and 170-MW Peaking Unit; own 23 MW of 619-MW W.F. Wyman No. 4; 55 MW of 1,150-MW Seabrook Unit 1 (under construction); 33 members: Ashburnham, Belmont, Boylston, Chicopee, Concord, Danvers, Georgetown, Groton, Hingham, Holden, Holyoke, Hudson, Hull, Ipswich, Littleton, Mansfield, Marblehead, Merrimac, Middleborough, Middleton, North Attleborough, Paxton, Peabody, Princeton, Reading, Rowley, Shrewsbury, South Hadley, Sterling, Templeton, Wakefield, West Boylston, Westfield. (estbl. 1976)*

Michigan

MICHIGAN PUBLIC POWER AGENCY, 2130 Enterprise S.E., Kentwood, Mich. 49508; 616/455-1460; Tim Morawski, Holland, chmn.; Richard I. Gorman, gen. mgr.; 6 staff; current: 38-MW share of 770-MW Campbell No. 3 coal unit; 242.65-MW share of 1,304-MW Belle River No. 1 and No. 2 coal units; gen. 1,726 million kWh; pur. 34 million kWh; rev. \$89,486,000; 19 members: Bay City, Charlevoix, Chelsea, Crosswell, Eaton Rapids, Grand Haven, Harbor Springs, Hart, Holland, Lansing, Lowell, Niles, Paw Paw, Petoskey, Portland, St. Louis, Sebewaing, Traverse City, Zeeland. (estbl. 1978)*

MICHIGAN SOUTH CENTRAL POWER AGENCY, Box 62, 720 Herring Road, Litchfield, Mich. 49252; 517/542-2346; James R. Endicott, Coldwater, chmn. and commissioner; J.P. Bieri, gen. mgr.; 53 staff; 55-MW coal plant; 5 members: Clinton,

Coldwater, Hillsdale, Marshall, Union City. (estbl. 1978)*

Minnesota

NORTHEASTERN MINNESOTA MUNICIPAL POWER AGENCY, Box 249, 19th St. and 6th Ave., Hibbing, Minn. 55746; 218/263-7515; David C. Strafaccia, Hibbing, pres.; Norman Schroder, Staples, chmn.; 12 members: Aitkin, Biwabik, Buhl, Ely, Gilbert, Grand Rapids, Hibbing, Keewatin, Mountain Iron, Nashwauk, Staples, Virginia.

NORTHERN MUNICIPAL POWER AGENCY, Box 528, Thief River Falls, Minn. 56701; 218/681-5816, -8002; John T. Anderson, Thief River Falls, pres./gen. mgr.; 30 percent share of 414.6 MW Coyote lignite plant, full requirements power supplier for 12 cities; \$268 million financing; 12 members: Bagley, Baudette, Fosston, Halstad, Hawley, Roseau, Stephen, Thief River Falls, Warren, Warroad, Minn.; Grafton, Park River, N.D.

SOUTHERN MINNESOTA MUNICIPAL POWER AGENCY, 500 S.W. First Ave., Rochester, Minn. 55902; 507/285-0478; Dallas Nelson, Litchfield, pres.; Pierre J. Heroux, exec. dir.; \$761 million in bonds; current: 328-MW share in 800-MW Sherco 3 plant, gen. 367,870,208 kWh; pur. 1,346,996,150 kWh; rev. \$67,338,104. Shared transmission agreements with Northern States Power Co., Dairyland Power Cooperative, Interstate Power Co., United Power Association; staff 33; 18 members: Austin, Blooming Prairie, Fairmont, Grand Marais, Lake City, Litchfield, Mora, New Prague, North Branch, Owatonna, Preston, Princeton, Redwood Falls, Rochester, Spring Valley, St. Peter, Waseca, Wells. (estbl. 1977)*

WESTERN MINNESOTA MUNICIPAL POWER AGENCY, 212 Second St. N.W., Ortonville, Minn. 56278; 612/839-2549; Greg Sherman, Detroit Lakes, pres.; Dan Holdhusen, gen. mgr.; staffed by Missouri Basin Municipal Power Agency; 272-MW share of 1,650-MW Missouri Basin Power Project; 21 members: Adrian, Alexandria, Barnesville, Benson, Detroit Lakes, Elbow Lake, Henning, Jackson, Lakefield, Lake Park, Luverne, Madison, Moorhead, Ortonville, St. James, Sauk Centre, Staples, Wadena, Westbrook, Windom, Worthington. (estbl. 1976)

Mississippi

MUNICIPAL ENERGY AGENCY OF MISSISSIPPI, Box 1408, Greenwood, Miss. 38930; 601/453-2622; Richard Webster, chmn.; Robert F. Burkard, gen. mgr.; pur. 672,163,930 kWh; rev. \$20,151,930; 8 members: Canton, Clarksdale, Durant, Greenwood, Itta Bena, Kosciusko, Leland, Yazoo. (estbl. 1978)*

Missouri

MISSOURI JOINT MUNICIPAL ELECTRIC UTILITY COMMISSION, 2407 W. Ash, Columbia, Mo. 65203; 314/445-3279; Arlie K. Roesener, Springfield, chmn.; Bob Barnett, gen. mgr.; 48 members: Albany, Bethany, Cabool, Cameron, Campbell, Carthage, Centralia, Chillicothe, Columbia, Farmington, Fayette, Fredericktown, Fulton, Galiatin, Hannibal, Hermann, Higginsville, Independence, Jackson, Kennett, Kirkwood, Lamar, La Plata, Macon, Malden, Marceline, Marshall, Memphis, Monroe City, New Madrid, Nixa, Odessa, Palmyra, Poplar Bluff, Richland, Roila, Salisbury, Shelbyville, Sikeston, Slater, Springfield, Stanberry, Trenton, Unionville, Vandalia, Waynesville, West Plains, Willow Springs. (estbl. 1980)*

Nebraska

NEBRASKA MUNICIPAL POWER POOL, Box 95124, 521 S. 14th, Lincoln, Neb. 68509; 402/474-4759; Robert E. Arraj, Kimball, pres.; H. Steve Wacker, exec. dir.; 25 staff; 91 members: Alliance, Ansley, Arnold, Atkinson, Auburn, Bayard, Beatrice, Beaver City, Benkelman, Blue Hill, Bridgeport, Broken Bow, Burwell, Callaway, Cambridge, Central City, Chappell, Crete, Curtis, Dakota City, David City, Fairbury, Falls City, Franklin, Fremont, Friend, Gering, Grand Island, Grant, Greenwood, Hastings, Hemingford, Hickman, Holdrege, Imperial Public Power District, Indianola, Kimball, Laurel, Leigh, Lincoln, Lodgepole, Lyman, Lyons, Mitchell, Morrill, Mullen, Nebraska City, Neligh, North Platte, Oxford, Pender, Pierce, Plainview, Randolph, Red Cloud, Sargent, Seward, Shickley, Sidney, Snyder, South Sioux City, Southwest Public Power District, Stromsburg, Stuart, Superior, Sutton, Syracuse, Tecumseh, Valentine, Wahoo, Wakefield, Wauneta, West Point, Wilber, Wilcox, Winside, Wisner, Wood River, Neb.; Aspen, Burlington, Fleming, Ft. Morgan, Frederick, Haxtun, Holyoke, Julesburg, Lyons, Wray, Yuma, Colo.; Goodland, Kan.; and Torrington, Wyo. (estbl. 1975)*

MUNICIPAL ENERGY AGENCY OF NEBRASKA (MEAN), (Nebraska Municipal Power Pool is operating agent), 521 S. 14th St., Box 95124, Lincoln, Neb. 68509; 402/474-4759; Donovan Washer, West Point, pres.; H. Steve Wacker, exec. dir. and sec./treas.; 25 staff; current: 45-MW share of Nebraska City No. 1 coal unit, 28-MW share of Laramie River Coal Station, 5-MW share of Hastings Energy Center Unit 1; gen. 161,000 kW includes 83,000 kW (members' capacity used by MEAN); sales 530 million kWh; \$43 bonds outstanding; 36 members: Alliance, Arnold, Auburn, Bayard, Beaver City, Blue Hill, Broken Bow, Burwell, Callaway, Chappell, Crete, Curtis, Fairbury, Falls City, Gering, Grant, Kimball, Lyman, Mitchell, Morrill, Mullen, Nebraska City, Oxford, Pender, Red Cloud, Shickley, Sidney, Stuart, Wahoo, West Point, Neb.; Aspen, Fleming, Haxtun, Frederick, Yuma, Colo.; Goodland, Kan. (estbl. 1981)†

North Carolina

NORTH CAROLINA MUNICIPAL POWER AGENCY NUMBER 1, 3100 Smoketree Court, Suite 600, Box 29513, Raleigh, N.C. 27626-0512; 919/876-9170; George W. Clay Jr., Shelby, chmn.; James T. Bobo, gen. mgr.; \$2,399 million financing; 75 percent (859-MW) share of Catawba Nuclear Station Unit 2, 37.5 percent of its support facilities; 19 participants: Albemarle, Bostic, Cherryville, Cornelius, Drexel, Gastonia, Granite Falls, High Point, Huntersville, Landis, Lexington, Lincolnton, Maiden, Monroe, Morgantown, Newton, Pineville, Shelby, Statesville, and one member, Concord. (estbl. 1976)*

NORTH CAROLINA EASTERN MUNICIPAL POWER AGENCY, 3100 Smoketree Court, Suite 600, Box 29513, Raleigh, N.C. 27626-0512; 919/876-9170; Frederick E. Turnage, Rocky Mount, chmn.; James T. Bobo, gen. mgr.; \$3,126 million financing; projected: undivided ownership interests, from 13 to 18 percent, in Brunswick Nuclear Station, Roxboro Plant, Mayo Plant, Shearon Harris Nuclear Plant; 32 participants: Apex, Ayden, Belhaven, Benson, Clayton, Edenton, Elizabeth City, Farmville, Fremont, Greenville, Hamilton, Hertford, Hobgood, Hookerton, Kinston, La Grange, Laurinburg, Louisburg, Lumberton, New Bern, Pikeville, Red Springs, Robersonville, Rocky Mount, Selma, Scotland Neck, Smithfield, South-

port, Tarboro, Wake Forest, Washington, Wilson.*

North Dakota

NORTH DAKOTA MUNICIPAL POWER AGENCY, 2105 Catherine Drive, Bismarck, N.D., 58501; 701/258-9506; Truman Wold, Northwood, pres.; Robert H. Griffin, sec./treas.; 6 members: Cavalier, Hillsboro, Hope, Lakota, Northwood, Valley City. (estbl. 1977)*

Ohio

AMERICAN MUNICIPAL POWER-OHIO (AMP-OH), Box 549, 601 Dempsey Road, Westerville, Ohio 43081; 614/890-2805; Kenneth Hegemann, pres.; Henry A. Bell, Columbus, chmn.; wholesale power supplier and trade association for the state's 83 public power communities; 71 members: Amherst, Arcanum, Beach City, Blanchester, Bloomdale, Bowling Green, Bradner, Brewster, Bryan, Carey, Celina, Cleveland, Columbiana, Columbus, Custar, Cuyahoga Falls, Cygnet, Deshler, Dover, Edgerton, Eldorado, Elmore, Galion, Genoa, Glouster, Grafton, Hamilton, Haskins, Hubbard, Hudson, Jackson, Jackson Center, Lakeview, Lebanon, Lodi, Lucas, Mendon, Milan, Minster, Monroeville, Montpelier, Napoleon, New Bremen, New Knoxville, Newton Falls, Niles, Oak Harbor, Oberlin, Orrville, Painesville, Pemberville, Pioneer, Piqua, Prospect, Republic, Seville, Shelby, South Vienna, St. Clairsville, St. Marys, Sycamore, Tipp City, Versailles, Wadsworth, Wapakoneta, Waynesfield, Wellington, Westerville, Woodsfield, Woodville, Yellow Springs. (estbl. 1972)*

Oklahoma

OKLAHOMA MUNICIPAL POWER AUTHORITY, 2300 E. 2nd St., Box 1960, Edmond, 73083-1960, 405/340-5047; Michael D. Brown, chmn.; Harry Dawson, gen. mgr.; bulk power supplier for 32 members; 43 members: Altus, Anadarko, Blackwell, Claremore, Comanche, Copan, Cushing, Duncan, Edmond, Eldorado, Fairview, Frederick, Goltzy, Granite, Hominy, Kaw City, Kingfisher, LaVerne, Lexington, Lindsay, Mangum, Marlow, New Cordell, Newkirk, Okeene, Olustee, Pawhuska, Pawnee, Perry, Ponca City, Pond Creek, Prague, Purcell, Ryan, Spiro, Tecumseh, Tonkawa, Walters, Watonga, Wynoka, Wetumka, Wynnewood, Yale. (estbl. 1981)*

South Carolina

PIEDMONT MUNICIPAL POWER AGENCY, 100 Memorial Drive, Greer, S.C., 29651; 803/877-9632; Joe B. Lanford, Rock Hill, chmn.; James A. Bauer, gen. mgr.; 25 percent (286 MW) share of Catawba Nuclear Station Unit No. 2; \$1.33 billion long-term debt; 10 members: Abbeville, Clinton, Easley, Gaffney, Greer, Laurens, Newberry, Rock Hill, Union, Westminster. (estbl. 1979)*

South Dakota

HEARTLAND CONSUMER POWER DISTRICT, Box 248, Madison, S.D. 57052; 605/256-6536; Ellwood Paulsen, Centerville, pres.; Wendell J. Garwood, gen. mgr.; 7 staff; 50-MW share of 1,650-MW Laramie River Coal Station; 21 members: Arlington, Aurora, Colman, Estelline, Groton, Hecla, Howard, McLaughlin, Madison, Parker, Plankinton, South Dakota State University-Brookings, University of South Dakota-Vermillion, State Training School-Plankinton, Tyndall, Volga, Wessington Springs, White, S.D.; Akron, Iowa; Marshall, Tyler, Minn. (estbl. 1969)*†

MISSOURI BASIN MUNICIPAL POWER AGENCY

Box 84610, Sioux Falls, S.D. 57118/4610; 605/338-4042; Harold Schiebout, Sioux Center, Iowa, pres.; Dan Holdhusen, gen. mgr.; 25 staff; gen. 332,000 kW (272,000 kW coal, 60,000 kW oil-fired); 1,200 million kWh; rev. \$49 million; 57 members: Alton, Denison, Fontanelle, Hartley, Hawarden, Kimbalton, Lake Park, Manilla, Orange City, Paulina, Primghar, Remsen, Rock Rapids, Sanborn, Shelby, Sioux Center, Wall Lake, Woodbine, Iowa; Adrian, Alexandria, Barnesville, Benson, Blue Earth, Breckenridge, Detroit Lakes, Elbow Lake, Granite Falls, Henning, Jackson, Lake Park, Lakefield, Luverne, Madison, Moorhead, Ortonville, St. James, Sauk Centre, Staples, Wadena, Westbrook, Worthington, Minn.; Beresford, Big Stone City, Brookings, Burke, Faith, Flandreau, Fort Pierre, Pierre, Vermillion, Winner, Watertown, S.D.; Cavalier, Hillsboro, Lakota, Northwood, Valley City, N.D. (estbl. 1965)*†

SOUTH DAKOTA MUNICIPAL POWER AGENCY, Box 84610, Sioux Falls, S.D. 57118; 605/224-7341; Dave Padgett, Pierre, pres.; issued bonds for Missouri Basin Municipal Power Agency office building; substation for Fort Pierre; 11 members: Beresford, Big Stone City, Brookings, Burke, Faith, Flandreau, Fort Pierre, Pierre, Vermillion, Watertown, Winner. (estbl. 1979)

Texas

LOVE STAR MUNICIPAL POWER AGENCY, Box 9960, College Station, Texas 77840-9960; 409/693-5359, North Bardell, exec. dir.; B.E. Rychlik, Caldwell, pres.; Dick Haddox, College Station, vice pres.

SAM RAYBURN MUNICIPAL POWER AGENCY

303 North Jackson, Livingston, Texas 77351; 409/327-5303; Wayne DuBose, Jasper, pres.; Robert D. Willis, exec. dir.; \$244 million bonds outstanding; 108-MW share in 540-MW Nelson No. 6 coal unit (May 1982); one-third entitlement in 52-MW swa hydro project; financial sponsor of 6-MW hydro project under construction by Army Corps of Engineers, option to participate in future Gulf States Utilities Co. projects; \$18.75 million sales to members; \$12.94 million sales to Gulf States Utilities (sellback of 60 MW of Nelson #6 to GSU.); 3 members: Jasper, Liberty, Livingston, Texas, and one nonmember participant Vinton, La. (estbl. 1979)*

TEXAS MUNICIPAL POWER AGENCY, Box 7000, Bryan, Texas 77805; 409/873-2013; Marvin Tate, Bryan, pres.; Ed Wagoner, gen. mgr.; 337 staff; 400-MW lignite-fired Gibbons Creek Steam Electric Station; projected: 6.2 percent share of 2,300-MW Comanche Peak nuclear units, transmission facilities; 4 members: Bryan, Denton, Garland, Greenville.*

Utah

INTERMOUNTAIN POWER AGENCY, 5250 S. 300 West, Suite 101, Murray, Utah 84107; 801/262-8807; Reece D. Nielsen, chmn. and actg. gen. mgr.; current: transmission lines: one 500-kV direct current line, two 345-kV and one 230-kV ac lines; generation: 1,600-MW coal-fired Intermountain Power Project. 23 Utah municipal members and six California municipal participants: Anaheim, Burbank, Glendale, Los Angeles, Pasadena, Riverside, Cal.; Beaver City, Bountiful, Enterprise, Ephraim, Fairview, Fillmore City, Heber, Holden, Hurricane, Hyrum, Kanosh, Kaysville, Lehi, Logan, Meadow, Monroe, Morgan, Mount Pleasant, Murray, Oak City, Parowan, Price,

Spring City, Utah. (Six cooperatives and one private utility are also participants in the project) (1974)†*

UTAH ASSOCIATED MUNICIPAL POWER SYSTEMS, 8722 South 300 West, Sandy, Utah 84070; 801/566-3933; Carolyn S. McNeil, gen. mgr.; Newel G. Daines, Logan, chmn.; gen. 655 million kWh; current: owns 14.6 percent of Hunter 2 coal-fired, steam generating plant; 25 members: Beaver City, Bountiful, Enterprise, Ephraim, Fairview, Fillmore City, Heber Light & Power Co., Holden, Hurricane, Hyrum, Kanosh, Kaysville, Lehi City, Logan, Meadow, Monroe, Morgan, Mount Pleasant, Murray, Oak City, Parowan, Payson, St. George City, Spring City, Springville, Strawberry Electric Service District. (estbl. 1980)*†

UTAH MUNICIPAL POWER AGENCY, 40 S. Main, Spanish Fork, 84660, 801/798-7489, Galen B. Christiansen, Manti, chmn.; Clark Bigler, exec. sec.; 25 MW share of 400 MW Bonanza Generating Station, 6.25 percent interest in associated 224 miles of 138- and 345-kV transmission facilities; long-term contract rights to 76 MW (summer) and 79 MW (winter) of federal hydro power and 51 MW of other member generating facilities including steam turbine and engine-driven generators as well as geothermal and hydroelectric generating facilities; \$46,245,000 in revenue bonds issued January 1987; 6 members: Levan, Manti, Nephi, Provo, Salem, Spanish Fork. (estbl. 1981)

Vermont

VERMONT PUBLIC POWER SUPPLY AUTHORITY, 512 St. George Rd., Box 425, Williston, Vt. 05495; 802/878-5274; James C. Fox, Morrisville, chmn.; Paul H. Bradtmiller, gen. mgr.; 14 staff; 12 members: Barton, Burlington, Enosburg Falls, Jacksonville, Ludlow, Lyndonville, Morrisville, Northfield, Readsboro, Stowe, Swanton, Washington Electric Cooperative. (estbl. 1979)*†

Washington

CENTRAL WASHINGTON POWER AGENCY, 1400 E. Vantage Hwy., Ellensburg, Wash. 98926; 509/925-3164; Harold W. Jenkins, Ellensburg, and E. Roy Mundy, Ephrata, dirs.; 2 members: Grant County and Kittitas County public utility districts. (estbl. 1962)

CLARK-COWLITZ JOINT-OPERATING AGENCY, Box 3007, Longview, Wash. 98632; 206/423-2210; Paul Runyan, Clark County PUD, dir.; Steven L. Ferrell, Cowlitz County PUD, dir.; projected: attempting to acquire 136-MW Merwin Dam hydro plant; 2 members: Clark County PUD, Cowlitz County PUD.

WASHINGTON PUBLIC POWER SUPPLY SYSTEM, Box 968, Richland, Wash. 99352/0968, 509/372-5000; Carl Halvorson, Portland, Ore., chmn.; Roger Sparks, Ellensburg, pres.; Donald W. Mazur, managing dir.; gen. 1,150 MW nuclear, 27.5 MW hydro; 860 MW steam turbine, 6,544,101,000 kWh; 16 members: cities of Richland, Seattle, Tacoma, and public utility districts of following counties—Benton, Chelan, Clark, Ferry, Franklin, Grant, Grays Harbor, Kittitas, Klickitat, Okanogan, Pacific, Skamania, Wahkiakim. (Participants in the WPPSS nuclear plants include 32 municipalities, 26 PUDs, 52 cooperatives and 4 investor-owned utilities.) (estbl. 1957)*†

Wisconsin

BADGER POWER MARKETING AUTHORITY, 122 N. Sawyer St., Shawano, Wis. 54166, 715/526-2920; M.E. Zeuske, Shawano, pres.; Al Mahnke,

Clintonville, vice pres.; Lee Ebert, Shawano, gen. mgr. Consisting of two member cities, Clintonville and Shawano, Badger expects to add municipal and cooperative associate members. Badger has begun the permit process to construct a 30-mile, 138-kV transmission line to two investor-owned utilities. (estbl. 1984)

WESTERN WISCONSIN MUNICIPAL POWER GROUP, 860 Lincoln Ave., Fennimore, Wis. 53809; 608/822-6501; Charles J. Leuck, Fennimore, pres. Co-owner with Dairyland Power Cooperative and Southern Minnesota Municipal Power Agency in a shared transmission system; 13 members: Arcadia, Argyle, Cashton, Cumberland, Elroy, Fennimore, La Farge, Merrillan, New Lisbon, Viola, Wis.; Forest City, Lake Mills and Osage, Iowa. (estbl. 1976)

WISCONSIN PUBLIC POWER INC. SYSTEM, Box 44, Sun Prairie, Wis. 53590; 608/837-2653; Ernest J. Mullen, pres.; David W. Penn, gen. mgr.; 8 staff; pur. 1.8 billion kWh; 26 members: Algoma, Black River Falls, Boscobel, Cedarburg, Cuba City, Eagle River, Florence, Hartford, Jefferson, Kaukauna, Lake Mills, Menasha, Muscoda, New Holstein, New London, New Richmond, Oconomowoc, River Falls, Slinger, Sturgeon Bay, Two Rivers, Waterloo, Waunakee, Waupun, Westby, Whitehall.*†

Wyoming

WYOMING MUNICIPAL POWER AGENCY, Box 900, Lusk, Wyo. 82225; 307/334-2170; Rick Wilder, Cody, chmn.; Larry LaMaack, exec. dir.; 5 staff; 23-MW share of 1,650-MW coal-fired Missouri Basin Power Project, purchases power from Western Area Power Administration, transmission services from WAPA; gen. 92 million kWh; pur. 86 million kWh; rev. \$4,796,000; 8 members: Cody, Fort Laramie, Guernsey, Lingle, Lusk, Pine Bluffs, Powell, Wheatland.*†

NATIONAL ASSOCIATION

AMERICAN PUBLIC POWER ASSOCIATION, 2301 M St. N.W., Washington, D.C. 20037, 202/775-8300; Larry Hobart, exec. dir.; Joe Exum, Jackson, Tenn., pres.; Walt Canney, Lincoln, Neb., pres.-elect; William C. Mescher, Moncks Corner, S.C., vice pres.; C.M. Perkins, Salt River Project, Phoenix, Ariz., treas.

REGIONAL ASSOCIATIONS

COLORADO RIVER ENERGY DISTRIBUTORS ASSOCIATION, c/o Maricopa County Municipal Water Conservation District, Box 260, Waddell, Ariz., 85355; 602/975-2151; Joe Falbo, Maricopa County Municipal Water Conservation District, Glendale, Ariz., pres.; Thaine J. Michie, Platte River Power Auth., Fort Collins, Colo., vice pres.; Ted Rampton, Intermountain Consumer Power Association, Sandy, Utah, sec.-treas.*†

GREAT LAKES ELECTRIC CONSUMERS ASSOCIATION, 1054-31st St. N.W., 2nd Floor, Washington, D.C. 20007, 202/342-5200, Frank Frisk, exec.

dir.; Lee Ebert, Shawano, Wis., pres.; Ray Barrett, Avoca, Minn., first vice pres.; Lynn Hill, Westerville, Ohio, second vice pres.; Harold Nicholson, Somerset, Pa., sec.-treas.*†

INTERMOUNTAIN CONSUMER POWER ASSOCIATION, 8722 S. 300 West, Sandy, Utah 84070, 801/566-3933, Carolyn McNeil, gen. mgr.; R. Leon Bowler, Beryl, Utah, pres.; Ted L. Olson, Ephraim, Utah, vice pres.; Ray Farrell, Heber, Utah, sec.; Vaun Bethers, Logan, Utah, treas.*†

MID-WEST ELECTRIC CONSUMERS ASSOCIATION, 1441 York St., #305, Box 300369, Denver, Colo. 80203, 303/393-0130, Tom Graves, exec. dir.; Ray R. Jilek, West Plains Electric Co-op, Dickinson, N.D., pres.; Phil Huan, Northwest Iowa Power Cooperative, vice pres.; Louis Stroup Jr., McPherson, Kan., sec.-treas.*†

MISSOURI BASIN SYSTEMS GROUP, Box 2327, Estes Park, Colo. 80517, 303/586-2393; Robert F. Risch, exec. dir.; Harvey K. Malon, Rapid City, S.D., pres.; James D. Davies, Billings, Mont., vice pres.; Walter A. Canney, Lincoln, Neb., sec.-treas.; Harley Behrens, George, Iowa, asst. sec.-treas.*†

NORTHEAST PUBLIC POWER ASSOCIATION, Suite 3, 30 Turnpike Road, Southborough, Mass. 01772, 617/481-2042, Andrew Natsios, exec. dir.; Bruce P. Patten, Peabody, Mass., pres.; Edgar Gadbois, Northfield, Vt., vice pres.; James L. Dean, Calais, Maine, second vice pres.; John W. Dunfey, Middleboro, Mass., sec.; Neil E. Murray, Holden, Mass., treas.*†

NORTHWEST PUBLIC POWER ASSOCIATION, 9817 N.E. 54th St., Box 4576, Vancouver, Wash. 98662-0576, 206/254-0109, Norman C. Jacox, gen. mgr.; Wayne Yenni, Clearwater Power Co., pres.; Brian Almquist, Ashland, Ore., first vice pres.; Sharon Jacobsen, Missoula (Mont.) Electric Cooperative, second vice pres.; Earl Weeks, Idaho County Light & Power Co-op Association, Grangeville, Idaho, treas.*†

PUBLIC POWER COUNCIL (NORTHWEST), 500 N.E. Multnomah, Suite 729, Portland, Ore. 97232, 503/232-2427; Daniel M. Ogden Jr., mgr.; Leon Smith, Cowlitz PUD, Longview, Wash., chmn.*†

SEMO-NEARK MUNICIPAL UTILITIES ASSOCIATION, 400 E. Monroe, Jonesboro, Ark. 72401, 501/935-5581, James A. Reed, Jonesboro, Ark., pres.; Ronald Bowen, Jonesboro, Ark., sec.-treas.

SOUTHWESTERN POWER RESOURCES ASSOCIATION, Box 1360, Edmond, Okla. 73083, 405/340-1900, Michael McDowell, exec. dir.; Walter Oestreich, Callaway Electric Co-op, Fulton, Mo., pres.; Buddy Vetterma, Walters, Okla., vice pres.; Gil Hanson, Kansas Municipal Energy Agency, Mission, Kan., sec.-treas.

CENTRAL SERVICE ASSOCIATION (TENNESSEE VALLEY), Box 348, Tupelo, Miss. 38802-0348, 601/842-5962; Ronnie H. Hickman, gen. mgr.; M.E. Beavers, Cleveland (Tenn.) Utilities, pres.; J.M. Allen, Tombigbee Electric Power Association, Tupelo, Miss., vice pres.; Charles D. Hanson, Central Service Association, Tupelo, Miss., sec.-treas.*†

TENNESSEE VALLEY PUBLIC POWER ASSOCIATION, 1201 Chestnut St., Chattanooga, Tenn. 37402, 615/756-6511, Jerry L. Campbell, exec. dir.;

REGIONAL ASSOCIATIONS (continued)

Robert C. Lay, Greenville, Tenn., pres.; Jim Allen, Tupelo, Miss., vice pres.; Tommy L. Kirkpatrick, Louisville, Miss., sec.-treas.*

STATE ASSOCIATIONS

ELECTRIC CITIES OF ALABAMA, Drawer 927, Cullman, 35056, 205/734-2343, D.C. Plunkett, Cullman, chmn.; Hubert Brooks, Hartford, vice-chmn.; Jim Garrett, Cullman, sec.-treas.; Bob Thorington, Montgomery, counsel.

MUNICIPAL ELECTRIC UTILITY ASSOCIATION OF ALABAMA, Box 207, Sylacauga, Ala. 35130, 205/249-0372, Dale H. Baker, Sylacauga, chmn.; Sewell St. John Jr., Foley, vice-chmn.; John Heard, Alexander City, sec.-treas.

ARIZONA MUNICIPAL POWER USERS' ASSOCIATION, 2712 N. Seventh St., Phoenix, Ariz. 85006-1003, 602/248-0372, Michael A. Curtis, exec. sec.; John Sullivan, Salt River Project, pres.; Wm. J. Metheny, Electrical District No. 2, vice pres.; Shelly D. Oliver, sec.; James Guinane, Arizona Electric Power Cooperative, treas.*

ARKANSAS MUNICIPAL POWER ASSOCIATION, 1319 Prairie St., Conway 72032, 501/329-5641, James H. Brewer, chmn.; Gene Sweat, Newport, vice-chmn.; Jack Wilson, Ocoola, sec.-treas.

CALIFORNIA MUNICIPAL UTILITIES ASSOCIATION, Suite 103, 1213 K St., Sacramento, Cal. 95814, 916/441-1733, Gerald L. Jordan, exec. dir.; Herbert B. Wessel, San Bernardino, pres.; Regina Turney-Murph, Compton, vice pres.; Harold Guetersloh, San Francisco, treas.; Lewis R. Adams, Vernon, sec.*

NORTHERN CALIFORNIA MUNICIPAL ELECTRIC ASSOCIATION, 1231 11th St., Box 4060, Modesto, Cal. 95352, 209/578-1212, Vincent Bradford, Modesto, pres.

COLORADO ASSOCIATION OF MUNICIPAL UTILITIES, Box 580, Fort Collins, 80522, 303/221-6700; Robert Nastan, Fort Collins, pres.; Jeff Gould, Longmont, vice pres.; Bruce Swain, Colorado Springs, sec.-treas.*

CONNECTICUT MUNICIPAL ELECTRIC & GAS ASSOCIATION, Box 190, 100 John St., Wallingford, Conn. 06492, 203/265-1593, Raymond Smith, Wallingford, pres.; Larry Rossi, South Norwalk, sec.*

FLORIDA MUNICIPAL UTILITIES ASSOCIATION, Box 10114, Suite 842, Barnett Bank Bldg., 315 S. Calhoun, Tallahassee, Fla. 32302, 904/224-3314, E.C. Shreve Jr., exec. vice pres.; James O'Connor, Bartow, pres.; Sheldon Ferdman, Jacksonville, pres.-elect.; John V. Little, Vero Beach, vice-pres.; B. W. Wait III, Tallahassee, sec.-treas.*†

ELECTRIC CITIES OF GEORGIA, 201 Pryor St., S.W., Atlanta, Ga. 30303; 2300, Atlanta, Ga. 30303, 404/688-0472, Keith Bass, Marietta, chmn.; John Jones, Griffin, vice-chmn.; Bill Thornton, Atlanta, research and information dir.

ILLINOIS MUNICIPAL UTILITIES ASSOCIATION, Box 38, 431 Miller St., Bushnell, 61422,

309/772-2020; Burt Sammons, exec. dir.; George Frazier, Sullivan, pres.; Terry Maloy, Princeton, first vice pres.; Dick Carter, Farmer City, second vice pres.; M. Stephen Finn, Rochelle, sec.-treas.*

INDIANA MUNICIPAL ELECTRIC ASSOCIATION Box 1416, Carmel, Ind. 46032, 317/844-3696 Paul W. Osler, exec. dir.; Jack Joyce, Tell City, pres.; Noel C. Olse, Tipton, vice pres.; James B. Nelson, Lebanon, sec.-treas.*

IOWA ASSOCIATION OF MUNICIPAL UTILITIES, Room 520, Insurance Exchange Bldg., Des Moines, Iowa 50309, 515/282-0904, Robert Haug, exec. dir.; Mary Ann de Vries, asst. dir.; Clyde Bowen, Muscatine, pres.; Neal Drefke, Spencer, first vice pres.; Gene Tweedt, Story City, second vice pres.; Ken Alberts, Cedar Falls, sec.-treas.*†

KANSAS MUNICIPAL UTILITIES INC., Box 1225, McPherson, Kan. 67460, 316/241-1423, Louis Stroup Jr., exec. dir.; Richard Doran, Garnett, pres.; Les Olm, Iola, pres.-elect.; Al Wetmore, Herington, first vice pres.; Lyle Drescher, Ottawa, second vice pres.; Henry Crosby, McPherson, sec.-treas.*

KENTUCKY MUNICIPAL ELECTRIC POWER ASSOCIATION, 400 Kings Daughters Dr., Frankfort, Ky. 40601, 502/223-2063, Lyle D. Cobb, exec. dir.; Bob Carper, Owensboro, pres.; Eddie Beck, Bowling Green, vice-pres.; William J. Ray, Glasgow, sec.-treas.*

MUNICIPAL ELECTRIC ASSOCIATION OF MASSACHUSETTS, 80 Commercial St., Marblehead, Mass. 01945, 617/631-0240, Gerald Skelton, Templeton, pres.; Roger H. Beeltje, Groton, first vice pres.; George Leary, Holyoke, second vice pres.; Richard L. Bailey, Marblehead, sec.-treas.*

MICHIGAN MUNICIPAL ELECTRIC ASSOCIATION, 818 Cowley Ave., East Lansing, Mich. 48823, 517/351-6469; S. Don Potter, exec. vice pres.; Anthony Simon, Detroit, pres.; David Hickey, Marquette, vice pres.; Clarence G. Pincumbe, Lansing, treas.*

MINNESOTA MUNICIPAL UTILITIES ASSOCIATION, Box 459, 401 E. Highway 55, Buffalo, Minn., 55313, 612/682-4104, Dick Kirkham, exec. dir.; Joseph Adrian, Glencoe, pres.; David Frantsen, Rochester, first vice pres.; Lou Van Hout, Shakopee, second vice pres.; DeWayne Rubedor, Sauk Centre, sec.-treas.*†

MISSOURI ASSOCIATION OF MUNICIPAL UTILITIES, 2409 West Ash, Columbia, Mo. 65203, 314/445-9177, Gerald Foller, exec. dir.; Richard Veatch, Independence, pres.; John Twitty, Rolla, first vice pres.; Richard E. Malon, Columbia, second vice pres.; James Dale Pierce, Poplar Bluff, sec.; Ray Blakely, Chillicothe, treas.*

NEBRASKA POWER ASSOCIATION, Box 80869, Lincoln, 68501, 402/473-3204, Debba Hoy, admn. coord.; Don E. Schaufelberger, Columbus, pres.; Eldon C. Pape, Omaha, first vice pres.; Russ Bovaird, Tri-State G&T Association, Denver, Colo., second vice pres.; Robert E. White, Columbus, sec.; C.J. Hoke, Grand Island, treas.

UTILITIES SECTION OF THE NEBRASKA LEAGUE OF MUNICIPALITIES, 1335 L St., Lincoln, Neb. 68508, 402/476-2829, David L. Chambers, director;

Glen W. Bennett, Sidney, pres.; Lash L. Chaffin, util. coordinating mgr.*

PUBLIC POWER ASSOCIATION OF NEW JERSEY, Box 346, Sussex, 07461, 201/875-5101; James Jablonski, pres.; Ray Lawson, Vineland, vice pres.; Abe Antun, Madison, treas.*

MUNICIPAL ELECTRIC GENERATION ASSOCIATION (MEGA), 800 Municipal Dr., Farmington, NEW MEXICO 87401, 505/327-7701; Dwight D. Arthur, Farmington, sec.

MUNICIPAL ELECTRIC UTILITIES ASSOCIATION OF NEW YORK STATE, 19 Aviation Rd., Albany, N.Y. 12205, 518/459-6937; Betty Aiken, exec. sec.; John McPeak, Solvay, pres.; Neal Winkle, Bath, pres.-elect.; Ronald Trinkl, Churchville, vice pres.; William Cominos, Freeport, vice pres.; Robert N. Vaisey, Fairport, trustee; James Buff, Skaneateles, trustee; Patrick J. Hester, Rockville Centre, trustee; James Pullan, Jamestown, treas.*†

ELECTRICITIES OF NORTH CAROLINA INC., Box 29513, 3100 Smoketree Court, Raleigh, N.C. 27626-0513, 919/876-9170, James T. Bobo, gen. mgr.; Rodney V. Byard, Wake Forest, pres.; A.W. Huffman Jr., Granite Falls, first vice-pres.; Charles W. Matthews, Benson, second vice-pres.; Robert R. Collins, Morganton, sec.; William H. Batchelor, Rocky Mount, treas.*

NORTH CAROLINA ASSOCIATION OF MUNICIPAL ELECTRIC SYSTEMS, Drawer 10, Granite Falls, N.C. 28630, 704/396-3131; Billy Price, Maiden, pres.; Donald Stanley, Wilson, vice pres.; Linda K. Story, Granite Falls, sec.-treas.

NORTH DAKOTA ASSOCIATION OF MUNICIPAL POWER SYSTEMS, 2105 Catherine Dr., Bismarck, N.D. 58501, 701/396-3131; Truman Wold, Northwood, pres.; Erlene Clausen, Lakota, vice pres.; Robert Griffin, Bismarck, sec.-treas.

MUNICIPAL ELECTRIC SYSTEMS OF OKLAHOMA, c/o Oklahoma Municipal League, 201 N.E. 23rd St., Oklahoma City, Okla. 73105, 405/528-7564; Shane Woolbright, exec. dir.; Joe Jackson, Stillwater, pres.; Delford Rutledge, Tahlequah, pres.-elect.; Melvin Sherwood, Altus, vice pres.; Jim Luckett Jr., Fairview, sec.-treas.*

LEAGUE OF PUBLICLY OWNED ELECTRIC UTILITIES OF OREGON, 1201 Court St. NE, Box 928, Salem, Ore. 97308, 503/588-6466; Tom O'Connor, exec. dir.; Stan Kenyon, Monmouth, pres.; Ken Gerotsky, Springfield, sec.-treas.*

OREGON PUD ASSOCIATION, 1176 Chemeketa N.E., #101, Salem 97301-2538, 503/370-4413; Marion Hemphill, exec. dir.; Richard Eymann, Emerald PUD, pres.; Roland Nuetzman, Newport, sec.-treas.*

PENNSYLVANIA MUNICIPAL ELECTRIC ASSOCIATION, 212 Locust St., Box 1266, Harrisburg 17108-1266, 717/233-5704; Jesse Tilton, exec. sec.; Lee Mangan, Lansdale, pres.; Mort Smedley, Lehighton, vice pres.; Robert Eckman, Chambersburg, sec.; Leonard Perrone, treas.; Anthony Adonizio, counsel.*

SOUTH CAROLINA ASSOCIATION OF MUNICIPAL POWER SYSTEMS, Box 12109, Columbia, S.C., 29211; 803/799-9574 (Columbia); 803/276-0471 (Nerberry); Steve Reeves, Newberry, pres.; Steve

STATE ASSOCIATIONS (continued)

Harrell, Clinton, vice. pres.*

SOUTH DAKOTA MUNICIPAL ELECTRIC ASSOCIATION, 214 E. Capitol, Pierre, S.D. 57501, 605/224-8654; Robert H. Miller, exec. dir.; Richard Bailey, pres.; Don Johnston, Flandreau, vice pres.

TENNESSEE MUNICIPAL ELECTRIC POWER ASSOCIATION, Box 1311, The Paddock I, C-13, 229 Ward Circle, Brentwood, Tenn. 37024-1311, 615/373-5738; T.O. Walker, exec. dir.; John F. Sharpe, Brownsville, pres.; Dalton Smith, Clarks-ville, pres.-elect.; E.C. Hoskins, Knoxville, sec.-treas.*

TEXAS PUBLIC POWER ASSOCIATION, 310 E. 11th St., Suite L-8, Austin, Texas, 78701, 512/472-5965; Michael H. Williams, exec. dir.*†

WEST TEXAS MUNICIPAL POWER AGENCY, Box 2000, Lubbock, 79457, 806/762-6411, ext. 2502;

Joan Baker, Lubbock, pres.; Alva J. Garon, Brownfield, vice pres.; William Feuerbacher, Floydada, sec.-treas.

MUNICIPAL ELECTRIC ASSOCIATION OF VERMONT, Box 279, Swanton, Vt. 05488, 802/868-3397; David C. Seuss, Hardwick, pres.; Orman E. Croft, Swanton, sec.-treas.

MUNICIPAL ELECTRIC POWER ASSOCIATION OF VIRGINIA, 13 E. Franklin St., Richmond, Va. 23219 (Box 12203, Richmond 23241), 804/649-8471; Christy A. Everson, exec. sec.; Michael J. York, Harrisonburg, pres.; Mollie E. Bass, Franklin, vice pres.*

WASHINGTON PUBLIC UTILITY DISTRICTS' ASSOCIATION, 19518 Pacific Hwy., South, Suite 102, Seattle, Wash. 98188, 206/824-6980; Steve Johnson, exec. dir.; Ken McMillen, Jefferson County PUD, pres.; John Goldsbury, Benton County, PUD, vice pres.; Howard Richman, Cowlitz County PUD, sec.-treas.*

EASTERN WASHINGTON PUD COMMISSIONERS' ASSOCIATION, 19518 Pacific Hwy., South, Suite 102, Seattle, Wash. 98188, 206/824-6980; Robert Johnson, Pend Oreille County PUD, pres.; Robert Graves, Benton County PUD, vice-pres.; Don MacKinnon, Chelan County PUD, sec.-treas.

WESTERN WASHINGTON PUD COMMISSIONERS' ASSOCIATION, 19518 Pacific Hwy., South, Suite 102, Seattle, Wash. 98188, 206/824-6980; Jane Van Dyke, Clark County PUD, pres.; Charles Moon, Snohomish County PUD, vice pres.; Harvey Warnaca, Mason County PUD No. 3, sec.-treas.

MUNICIPAL ELECTRIC UTILITIES OF WISCONSIN, 202 W. Prospect St., Lake Mills, Wis., 53551, 414/648-2258; Russell H. Kurtz, exec. dir.; Donald G. Moen, Sauk City, pres.; Carl J. Melchoirs, Oconomowoc, first vice pres.; Carol Sheafor, Brodhead, second vice pres.; Robert O. Stuhlmacher, Wisconsin Rapids, sec.-treas.*

FEDERAL POWER AGENCIES

DEPARTMENT OF ENERGY, Washington, D.C. 20585, 202/586-5000

Secretary—John S. Herrington, 586-6210

Deputy secretary—William F. Martin, 586-5500

Under secretary—Joseph Salgado, 586-6476

General counsel—J. Michael Farrell, 586-5281

Inspector general—John C. Layton, 586-4393

Assistant secretary, management and administration—Lawrence F. Davenport, 586-8016

Assistant secretary, congressional, intergovernmental and public affairs—C. Anson Franklin (actg.), 586-5450

Assistant secretary, international affairs and energy emergencies—David B. Waller, 586-5800

Assistant secretary, nuclear energy—Theodore Garrish, 586-6450

Assistant secretary, environment, safety and health—Mary L. Walker, 586-6151

Assistant secretary, conservation and renewable energy—Donna R. Fitzpatrick, 586-9220

Assistant secretary, fossil energy—James A. Wampler, 586-4695

Assistant secretary, defense programs—Troy Wade (actg.), 586-2177

Director, office of energy research, James Decker (actg.), 586-5430

Director, office of civilian radioactive waste management, Charles E. Kay (actg.), 586-6850

The department includes federal power marketing agencies formerly in the Department of the Interior (see listings below); the former Federal Power

Commission, renamed the Federal Energy Regulatory Commission (see listing below); all functions of the former Federal Energy Administration and Energy Research and Development Administration; and a variety of other functions transferred from several other federal departments and agencies.

ECONOMIC REGULATORY ADMINISTRATION, DOE, Washington, D.C. 20585, 202/586-5000. Administrator, Marshall Staunton; Deputy Administrator, Chandler van Orman; special counsel, Milton Lorenz; director, office of management and information services, Jerry F. Thompson; director, office of fuels program, Robert L. Davies; acting solicitor, Marshall A. Staunton.

The Economic Regulatory Administration (ERA) is the entity within the Department of Energy responsible for administering and enforcing most of the department's regulatory programs.

ENERGY INFORMATION ADMINISTRATION, DOE, Washington, D.C., Forrestal Building 20585. Administrator Helmut A. Merkley, 202/586-4361; executive assistant, Lawrence Klur, 202/586-6358; director, Office of Coal, Nuclear, Electric and Alternate Fuels, John C. Geidl, 202/586-9880; National Energy Information Center, 586-8800.

In establishing the Energy Information Administration (EIA) in 1977, Congress gave the agency the responsibility for "... carrying out a central, comprehensive and unified energy data and information program which will collect, evaluate, assemble, analyze and disseminate data and information which is relevant to energy resource reserves, energy production, demand

and technology, and related economic and statistical information; or which is relevant to the adequacy of energy resources to meet demand in the near and long-term future for the nation's economic and social needs.

FEDERAL ENERGY REGULATORY COMMISSION, 825 N. Capitol Street, N.E., Washington, D.C. 20426, 202/357-8200. Commissioners (all terms expire Oct. 20 of year listed): Martha O. Hesse—chairman (1987); Charles G. Stalon (1987); Anthony Sousa (1988); Charles Trabandt (1988); C.M. Naeye (1989); secretary, Kenneth F. Plumb; executive director Vincent Mason, director, office of electric power regulation, J. Steven Herod; director, office of hydropower licensing, Fred Springer; director, office of pipeline and producer regulation, Dick O'Neill; director, external affairs, Roger Gale; director, public affairs, Victoria Calvert; director, congressional affairs, Jerry Kennedy; press secretary, James E. Merna; Robert G. Fitzgibbons Jr., associate general counsel for hydroelectric and electric power.

ALASKA POWER ADMINISTRATION, Box 020050, Juneau, Alaska 99802-0050, 907/586-7405. Administrator, Robert J. Cross.*

Alaska Power Administration (APA) was established in 1967 to operate and market power from federal hydroelectric projects in Alaska including the 30,000-kW Eklutna Project constructed by the Bureau of Reclamation and the 47,160-kW Snettisham Project constructed by the Army Corps of Engineers. A 31,000-kW expansion of the Snettisham Project is under construction with an estimated 1989 completion date. In fiscal 1987, APA sold 335 million kWh and had power revenues of \$8.2 million.

BONNEVILLE POWER ADMINISTRATION, Box 3621, 905 N.E. 11th, Portland, Ore. 97208, 503/230-3000. Administrator, James J. Jura; deputy administrator, Jack Robertson; executive assistant administrator, Steven G. Hickok; assistant administrator, power management, Edward W. Sienkiewicz; media relations manager, (vacant); 503/230-5359; assistant administrator, Washington, D.C., office, Lee F. Johnson, Forrestal Bldg., Room 8G033, 1000 Independence Ave. S.W., Washington, D.C. 20585, 202/586-5640.*

Bonneville Power Administration (BPA), established under the Bonneville Project Act of 1937, markets power from projects constructed by the Army Corps of Engineers and the Bureau of Reclamation in the Columbia River Basin. As of Sept. 30, 1987, the Federal Columbia River Power System included 30 hydroelectric projects with more than 20 million of installed capacity. BPA has more than 14,000 circuit miles of transmission lines and 384 substations. During fiscal 1987 BPA sold 75 billion kWh of electricity for \$1.5 billion to 165 customers, including 33 municipalities, 28 public utility districts, 55 rural electric cooperatives, 9 private power companies, 6 federal agencies, 7 aluminum companies, 8 other industrial customers in the Pacific Northwest and 14 customers outside the Northwest.

SOUTHEASTERN POWER ADMINISTRATION, Samuel Elbert Bldg., Elberton, Ga. 30635, 404/283-9911. Administrator, Harry C. Geisinger; director, division of power sales, Kenelm E. Rucker; director, division of fiscal operations, Leon Jourolmon Jr.; director, division of power operations, Jim B. Lloyd; director, division of administrative management, Karl E. Tucker; executive assistant to the administrator, Mary George Bond; general counsel, Denver L. Rampey Jr.*

Southeastern Power Administration (SEPA) was established in 1950 to market power from the Army Corps of Engineers projects in 10 Southeastern states. In fiscal 1987 SEPA sold 6.5 billion kWh from 22 projects with a total installed capacity of 3,092,375 kW and had revenues of \$118.1 million.

SOUTHWESTERN POWER ADMINISTRATION, Box 1619, Page Belcher Federal Bldg., 333 W. Fourth, Tulsa, Okla. 74101, 918/581-7474. Administrator, Ronald H. Wilkerson; assistant administrator, (vacant); director, power marketing division, Francis R. Gajan; director, power facilities division, James N. McClanahan; director, administrative management division, George C. Grisaffe; chief counsel, Charles A. Borchardt; public affairs specialist, Bradley C. Byers; human resources office, (vacant).*

Southwestern Power Administration (SWPA) was established in 1943 to market power in Kansas, Missouri, Oklahoma, Arkansas, Texas and Louisiana. In fiscal 1987 SWPA sold approximately 6.2 billion kWh of electricity from projects with a total installed capacity of 2,051,188 kW and had gross revenues of approximately \$90 million.

WESTERN AREA POWER ADMINISTRATION Box 3402, Golden, Colo. 80401, phone 303/231 + ext. Administrator, William H. Claggett (1513); assistant administrator for management, Richard D. Redenius, (1517); assistant administrator for engineering, Thomas L. Weaver (1516); acting assistant administrator for power management, operations and maintenance, Stephen A. Fausett (1518); general counsel, Michael S. Hacsakaylo (1534); assistant to the administrator for conservation, environment and safety, Warren Jamison

(7945); acting public affairs officer, Bohdan M. Chopko (1556); Washington liaison, Ronald Greenhalgh (202/586-5581).*

The service area of the Western Area Power Administration (Western or WAPA), a federal power marketing agency within the Department of Energy, extends into 15 western states and includes about 16,120 miles of transmission lines and maximum operating capability of 9,383 MW of capacity at 50 hydro projects constructed by the Corps of Engineers, the Bureau of Reclamation and the International Boundary and Water Commission (U.S. Section). Additionally, the agency markets the U.S. entitlement from the Navajo coal-fired plant near Page, Ariz. This brings the total maximum operating capability to 9,930 MW. During fiscal 1987 power sales were about 40.8 billion kWh and power revenues were \$621.7 million.

TENNESSEE VALLEY AUTHORITY, Knoxville, Tenn. 37902, 615/632-2101. Directors (9-year terms expire May 18): Charles H. Dean Jr., chairman (1990); John B. Waters Jr. (1993); general manager, William F. Willis; general counsel, Edward C. Christenberry's manager of governmental and public affairs, Craven Crowell; manager of power, Robert C. Steffy Jr.; manager of nuclear power, Steven A. White (employed by a contractor); Chattanooga, Tenn. 37402-2801.*

The Tennessee Valley Authority (TVA) is a corporate agency of the federal government created by Congress in 1933 as a regional resource development agency. As of February 1987, the authority had a total installed capacity of 30,909,370 kW (coal-fired, 17,647,360 kW; nuclear 5,897,160 kW; hydro, 4,854,850 kW, combustion turbine, 2,510,000 kW) and also marketed the output of eight federal dams constructed by the Corps of Engineers on the Cumberland River (853,000 kW) and 4 dams of the Tapoco Co. (326,000 kW) for a total system capacity of 32,092,910 kW.

About 84 percent of TVA power sales of 106.1 billion kWh in fiscal 1987 were made at wholesale to 110 municipal utilities and 50 rural electric cooperatives serving 3 million consumers in Tennessee, northern Alabama, northern and eastern Mississippi, southern Kentucky, and smaller areas in northern Georgia, western North Carolina and southwestern Virginia. TVA also sold 14.9 billion kWh to large, directly served industries, 1.98 billion kWh to other federal agencies, and 258.9 million kWh to private power companies.

U.S. ARMY CORPS OF ENGINEERS, 20 Massachusetts Ave. N.W., Washington, D.C. 20314-1000, 202/272-0001. chief of engineers, Lt. Gen. E.R. Heiberg III; director of civil works, Maj. Gen. Henry J. Hatch; deputy director of civil works, Brig. Gen. Peter J. Offringa; executive director of civil works, Col. Carroll C. Hilton Dunn; chief, public affairs, Col. Jay B. Martin.

U.S. BUREAU OF RECLAMATION, Department of Interior, Washington, D.C. 20240, 202/343-7220, C. Dale Duvall, 343-4157, commissioner; Terry Lynott, 343-4291, assistant commissioner for planning and operations; Benedict Radecki, 343-4890, chief, division of power.

RURAL ELECTRIFICATION ADMINISTRATION, South Bldg., U.S. Dept. of Agriculture, Washington, D.C. 20250, 202/382-9540. Administrator, Harold V. Hunter; deputy administrator, Jack Van Mark; assistant administrator-electric, John H. Arnesen.

The Rural Electrification Administration (REA), established under executive order by President Franklin D. Roosevelt in 1935 and subsequently authorized by the Rural Electrification Act of 1936, makes loans and loan guarantees to provide electric and telephone service to rural areas.

	Fiscal Year 1987	Cumulative
Insured Loans: 2 percent	\$12,520,000	\$9,888,126,888
5 percent	615,869,662	9,945,616,327
Total Insured	628,389,662	19,833,743,215
Electric loans guaranteed commitments:	174,710,000	30,959,549,842
Total:	803,099,662	50,793,293,057

NUCLEAR REGULATORY COMMISSION, 1717 H St. N.W., Washington, D.C. 20555, 202/492-7715. Commissioners (five-year terms expire June 30): Lando W. Zech Jr., chairman (1989); Kenneth L. Rogers (1992); Frederick M. Bernthal (1988); Kenneth M. Carr (1991); Thomas M. Roberts (1990).

The Nuclear Regulatory Commission (NRC) licenses and regulates the use of nuclear energy by licensing persons and companies to build and operate nuclear reactors and to own and use nuclear materials. (The NRC makes rules and sets forth standards for licenses and inspects activities of licensees.)



MAJOR CANADIAN ELECTRIC UTILITIES

by HANS R. KONOW

director, public affairs, Canadian Electrical Association

THE CANADIAN ELECTRICAL ASSOCIATION (CEA) represents Canada's major electric utilities responsible for producing 95 percent of electricity production. Most of the remaining power is generated by large industrial users with their own facilities.

Most Canadian electric utilities are responsible for generation, transmission and distribution to the ultimate customer. In some cases, major generating utilities sell in bulk to municipally owned utilities. Except in Ontario, where more than 300 municipally owned utilities buy power directly from the generating and transmitting authority (Ontario Hydro), most major municipal utilities in Canada are members of CEA.

Unlike in the United States, privately owned power companies in Canada are in the distinct minority. Most of the large utilities are crown corporations owned by their respective provincial governments.

In 1986, 455 terawatt-hours (TWh) of electricity were produced in Canada. This was made

up of slightly less than 18 percent thermal (primarily from coal), nearly 15 percent CANDU (Canadian Deuterium Uranium) nuclear and 67 percent hydroelectric power. Net exports to the United States amounted to more than 7 percent of total production.

The following is a brief outline of production by province and a description of our members in each province:

British Columbia

More than 96 percent of the electricity produced in British Columbia is from hydro. The remainder is conventional thermal. Total production in 1986 amounted to 50 TWh. British Columbia exported 2 TWh to the United States.

The B.C. Hydro & Power Authority serves 1,163,000 customers and has an installed generating capacity of 10,483 MW. The privately owned West Kootenay Power & Light Co. Ltd.

serves 60,500 customers and has a capacity of 200 MW.

Alberta

About 95 percent of the electricity in the province of Alberta in 1986 was produced by conventional thermal plants. Hydro power supplied the remaining 5 percent. Total production amounted to slightly more than 34 TWh.

TransAlta Utilities Corp. serves 287,000 customers and has a generating capacity of 4,293 MW. Alberta Power Ltd. has a generating capacity of 1,230 MW and serves 150,000 customers.

The Calgary Electric System serves 245,000 customers with electricity supplied by TransAlta Utilities Corp. Edmonton Power, with a generating capacity of 1,050 MW, purchases some power from Alberta Power Ltd. to supply its 233,000 customers.

The Northern Canada Power Commission

serves 13,800 customers and has a generating capacity of 268 MW. TransAlta Utilities Corp. and Alberta Power Ltd. are privately owned. Alberta Power is owned by Canadian Utilities, which owns and operates Yukon Electric in the Northwest Territories.

Saskatchewan

In 1986, 68 percent of Saskatchewan's electricity was produced by conventional thermal generating facilities. The other 32 percent was hydroelectric. Total production of electricity in 1986 was nearly 12 TWh. The Saskatchewan Power Corp. serves 401,000 customers. Total installed generating capacity is 2,736 MW.

Manitoba

More than 99 percent of Manitoba's electricity is from hydroelectric installations. Conventional thermal stations supply the remainder. Total production for 1986 was more than 24 TWh. Of that total, 7 TWh were exported to utilities in the United States.

Manitoba Hydro serves 351,000 customers with a generating capacity of 4,091 MW. Winnipeg Hydro serves 89,000 customers and has an installed generating capacity of 191 MW.

Ontario

About 46 percent of Ontario's 1986 production was from CANDU nuclear generating stations, 33 percent came from hydroelectric installations and 21 percent from conventional thermal. Total production for 1986 was 125 TWh, with 6.7 TWh being sold to utilities in the United States.

Ontario Hydro, the largest electric utility in Canada, has a generating capacity of 28,306 MW, and serves 3,172,000 customers through more than 300 municipal utilities. They include the Ottawa Hydro Electric Commission, which serves 124,000 customers and has 12 MW of generating capacity of its own.

Québec

Hydroelectric generating facilities supplied more than 97 percent of the electricity produced in Québec in 1986. Much of the remainder was supplied by the Gentilly II nuclear unit. Total production for 1986 was 148 TWh. Exports to utilities in the United States amounted to 12 TWh.

Hydro-Québec, the second largest utility in Canada, has an installed generating capacity of 24,474 MW and serves 2,862,000 customers. In addition to its own capacity, Hydro-Québec has access to most of the output of the Churchill Falls hydro installation in Labrador.

New Brunswick

Nuclear power was the major source of New Brunswick's production in 1986. The Point Lepreau CANDU installation produced 43 percent of New Brunswick's power. Thirty-one percent was produced by conventional thermal plants and hydroelectric power supplied the remaining 26 percent. Total production during 1986 was 12 TWh, with 6.6 TWh being exported to the United States.

The New Brunswick Electric Power Commission, serving 246,000 customers, has a generating capacity of 3,190 MW. The Power Commission of the City of Saint John sells purchased power from New Brunswick Electric Power Commission to its 33,000 customers.

Prince Edward Island

Conventional steam generation is the source of electricity produced on Prince Edward Island. In 1986, 12 GWh were produced. The bulk of P.E.I.'s 1986 requirements came from New Brunswick by submarine cable.

The privately owned Maritime Electric Co. Ltd. serves 46,000 customers and has a total generating capacity of 129 MW.

Nova Scotia

Conventional steam supplied more than 86 percent of Nova Scotia's electric production in 1986. The remainder of the province's 7.4 TWh production was from hydroelectric installations, including the first tidal generating plant in the western hemisphere, at Annapolis.

The Nova Scotia Power Corp. serves 356,000 customers. Its installed generating capacity is 1,999 MW.

Newfoundland

A total of 40 TWh was produced in Newfoundland in 1986. Almost 97 percent of this was produced at hydroelectric facilities. The remainder came from conventional thermal generating facilities.

Newfoundland and Labrador Hydro has an installed generating capacity of 1,468 MW and owns several other producers. Among them is Churchill Falls (Labrador) Corp., which has a capacity of 5,400 MW. Newfoundland Light & Power, privately owned, is the principal retailer in the province, serving 175,000 customers through bulk purchases from Newfoundland & Labrador Hydro and its own generating capacity of 173 MW.

The addresses, phone number and chief executive officers of Canada's principal regional utilities (all publicly owned unless otherwise noted) and utility associations are:

Alberta Power Ltd. (privately owned), Box 2426, 10035 105th St., Edmonton, Alberta T5J 2V6, 403/424-6161, C.O. Twa, president.

British Columbia Hydro & Power Authority, 970 Burrard St., Vancouver, British Columbia, V6Z 1Y3, 604/663-2212, L.I. Bell, chairman.

Edmonton Power, Century Place (7th Floor), 9803-102A Ave., Edmonton, Alberta T5J 3A3, 403/428-3175, E.F. Kyte, general manager.

Hydro-Québec, 75 Ouest, Boul. Dorchester, Montréal, Québec, H2Z 1A4, 514/289-2211, Guy Coulombe, president-directeur général.*

Manitoba Hydro, Box 815, 820 Taylor Ave., Winnipeg, Manitoba, R3C 2P4, 204/474-3311, G.H. Beatty, president.

Maritime Electric Co. Ltd. (privately owned), Box 1328, Charlottetown, Prince Edward Island C1A 7N2, 902/566-1599, J.H. Reynolds, president.

New Brunswick Electric Power Commission, 527 King St., Fredericton, New Brunswick, E3B 4X1, 506/453-4444, A.J. O'Connor, president.

Newfoundland Light & Power Co. Ltd. (privately owned), Box 8910, Kenmount Road, St. John's, Newfoundland, A1B 3P6, 709/737-5600, A.A. Bruneau, president.

Newfoundland & Labrador Hydro, Box 9100, Philip Place, Elizabeth Ave., St. John's, Newfoundland, A1A 2X8, 709/737-1400, C.J. Abery, vice-chairman and chief executive officer.

Nova Scotia Power Corp., Box 910, Barrington Tower, Scotia Square, Halifax, Nova Scotia, B3J 2W5, 902/424-6230, L.R. Comeau, president.

Ontario Hydro, 700 University Ave., Toronto, Ontario, M5G 1X6, 416/592-5111, R.C. Franklin, chairman/president.*

Ottawa Hydro Electric Commission, Box 8700, Ottawa, Ontario K1G 3S4, 613/738-6400, C.F. Kropp, general manager.

Saskatchewan Power Corp., 2025 Victoria Ave., Regina, Saskatchewan S4P 0S1, 306/566-2101, G.D. Hill, president.

TransAlta Utilities Corp. (privately owned), Box 1900, 110 12th St. S.W., Calgary, Alberta, T2P 2M1, 403/267-7110, M.M. Williams, chairman.

Canadian Electrical Association, Suite 500, 1 Westmount Square, Montréal, Québec H3Z 2P9, 514/937-6181, W.S. Read, president.*

Municipal Electric Association (of Ontario), 20 Eglinton Avenue West, Suite 1301, Toronto, Ontario M4R 1K8, 416/483-7739, A.J. Bowker, chief executive officer.*

The addresses, phone number and chief executive officers of Canada's other APPA member utilities are:

Etobicoke Hydro, 2 Civic Centre Ct., Etobicoke, Ontario M9C 2B4, 416/626-4500, R.H. Willows, general manager/secretary; 91,552 met.*

Halton Hills Hydro Electric Commission (of Georgetown), 66 Mill St., Georgetown, Ontario L7G 3H7, 416/877-2275, J.R. Trudell, general manager; 12,000 met.*

North York Hydro, 5800 Yonge St., North York, Ontario M2M 3T3, 416/226-6400, A.D. McKee, general manager; 142,000 met.*

Toronto Hydro Electric System, 14 Carlton St., Toronto, Ontario M4B 1K5, 416/595-6616, K.C. Laking, general manager; 210,000 met.*

* denotes APPA membership.

Additions and corrections to be included in the next directory should be sent to PUBLIC POWER Directory, 2301 M St. N.W., Washington, D.C. 20037; 202/775-8300.

APPA Electric Cooperative Members

ALABAMA RURAL ELECTRIC ASSOCIATION

Box 7120, Montgomery, Ala. 36107
Dail Gibbs, exec. vice pres.
205/262-8387

COLORADO RURAL ELECTRIC ASSOCIATION

1313 West 46th Ave.
Denver, Colo. 80211
Ray Clifton, gen. mgr.
303/455-2700

TRI-STATE GEN. & TRANS. ASSN.

Box 33695, Denver, Colo. 80233
Daniel E. MacLeod, gen. mgr.
303/452-6111

FLORIDA ELECTRIC COOPERATIVES ASSOCIATION

Box 590
Tallahassee, Fla. 32302
John E. Horne, gen. mgr.
904/877-6166

LEE COUNTY ELECTRIC COOPERATIVE

Box 3455, N. Ft. Myers, Fla. 33903
James D. Sherley, gen. mgr.
813/995-2121†

SEMINOLE ELECTRIC COOPERATIVE

Box 272000, Tampa, Fla. 33688
William Walbridge, gen. mgr.
813/963-0994

GEORGIA ELECTRIC MEMBERSHIP CORP.

148 Int'l Blvd. #845
Atlanta, Ga. 30043
Benson Ham, dir., legis. affairs
404/659-3430

INDIANA STATEWIDE ASSOCIATION OF RECS

Box 24517
John Ferguson, mgr.
720 N. High School Rd.
Indianapolis, Ind. 46224
317/248-9453

IOWA ASSOCIATION OF ELECTRIC COOPERATIVES

8525 Douglas Ave. #48
Des Moines, Iowa 50322
Glenn O. Lovig, exec. vice pres.
515/276-5350

L&O POWER COOPERATIVE

315 First Ave.
Rock Rapids, Iowa 51246
W. L. Jongerius, mgr.
712/472-2556

KANSAS ELECTRIC COOPERATIVES INC.

Box 4267
Topeka, Kansas 66604
Lester L. Murphy Jr., exec. vice pres.
913/272-8740

MINNESOTA RURAL ELECTRIC ASSOCIATION

4901 West 77th St.
Minneapolis, Minn. 55435

Leon Barnier, gen. mgr.
612/835-2614

SOUTHWESTERN MINNESOTA COOPERATIVE ELECTRIC

Box 336
Pipestone, Minn. 56164
Virgil A. Winter, gen. mgr.
507/825-3341

MONTANA ASSOCIATED UTILITIES

Box 1306, Great Falls, Mont. 59403
Jay T. Downen, exec. vice pres.
406/761-8333

NEBRASKA RURAL ELECTRIC ASSOCIATION

Box 82048, Lincoln, Neb. 68501
Rex Carpenter, gen. mgr.
402/475-4988

SOUTHWEST PUBLIC POWER DISTRICT

221 N. Main—Box 4
Palisade, Neb. 69040
Donald H. Husted, gen. mgr.
308/285-3295

NORTH CAROLINA ASSOCIATION OF ELECTRIC COOPERATIVES

Box 27306, Raleigh, N.C. 27611
James M. Hubbard, exec. vice pres.
919/872-0800

BASIN ELECTRIC POWER COOPERATIVE

1717 E. Interstate Ave.
Bismarck, N.D. 58501
Robert L. McPhail, gen. mgr.
701/223-0441

CENTRAL POWER ELECTRIC COOPERATIVE

Box 1576
Minot, N.D. 58701
Gary Williamson, gen. mgr.
701/852-4407

NORTH DAKOTA ASSOCIATION OF RECS

Box 727, Mandan, N.D. 58554
Leland G. Ulmer, gen. mgr.
701/663-6501

NEW MEXICO RURAL ELECTRIC CO-OP ASSOCIATION

614 Don Gaspar
Santa Fe, N.M. 87501
Carl M. Turner, exec. mgr.
505/982-4671

OKLAHOMA ASSOCIATION OF ELECTRIC COOPERATIVES

Box 11047, Oklahoma City, Okla. 73111
Larry Watkins, gen. mgr.
405/478-1455

WESTERN FARMERS ELECTRIC CO-OP

Box 429
Anadarko, Okla. 73005
James D. Pendergrass, gen. mgr.
405/247-3351

OREGON RURAL ELECTRIC COOPERATIVE ASSOCIATION

575 Union Street, N.E.
Salem, Ore. 97301

Mark Glaess, gen. mgr.
503/585-9988

RURALITE SERVICE

Box 557, Forest Grove, Ore. 97116
Charles K. Fleming, pres. and gen. mgr.
503/357-2105

SALEM ELECTRIC COOPERATIVE

Box 5588, Salem, Ore. 97304
Jere Overs, gen. mgr.
503/362-3601

ALLEGHENY ELECTRIC COOPERATIVE INC.

Box 1266, Harrisburg, Pa. 17108
Jesse Tilton, pres.
717/233-5704

PENNSYLVANIA RURAL ELECTRIC ASSOCIATION

212 Locust St., Box 1266,
Harrisburg, Pa. 17108
Jesse Tilton, exec. sec.
717/233-5704

EAST RIVER ELECTRIC POWER COOPERATIVE

Lock Drawer E, Madison, S.D. 57042
Robert Feragen, gen. mgr.
605/256-4536

PEDERNALES ELECTRIC COOPERATIVE

Box 467, Johnson City, Texas
Bennie R. Fuelberg, mgr.
512/868-7155

TEXAS ELECTRIC COOPERATIVES INC.

Box 9589, Austin, Texas 78766
Jim Morris, exec. vice pres.
512/454-0311

SOUTH DAKOTA RURAL ELECTRIC ASSOCIATION, INC.

Box 1138, 222 W. Pleasant Drive
Pierre, S.D. 57501

GARKANE POWER ASSOCIATION

Box 748, Richfield, Utah 84701
Glen P. Willardson, gen. mgr.
801/896-5403†

VERMONT ELECTRIC COOPERATIVE INC.

School Street, Johnson, Vt. 05656
William J. Gallagher, exec. mgr.
802/635-2331

WASHINGTON ELECTRIC COOPERATIVE INC.

Box 8, East Montpelier, Vt. 05651
Robert Toombs, mgr.
802/223-5245

APPA Corporate Associate Members

ARNOLD & PORTER

1200 New Hampshire Ave. N.W.
Washington, D.C. 20036
202/872-6700

BEAR, STEARNS & CO.

55 Water St.
New York, N.Y. 10041
212/952-5740

BECHTEL POWER CORP.

Box 3965
San Francisco, Cal. 94104
415/768-1234

R.W. BECK & ASSOCIATES

2121-4th Ave.
Seattle, Wash. 98121
206/441-7500

BLACK & VEATCH

Box 8405
Kansas City, Mo. 64114
913/967-2000

BURNS & McDONNELL

Box 173
Kansas City, Mo. 64141
816/333-4375

BURNS & ROE

550 Kinderkamack Road
Oradell, N.J. 07649
201/265-2000

CH2M HILL, INC.

1500 114th Ave., S.E.
Bellevue, Wash. 98009
206/453-5000

CANADA WIRE & CABLE LTD.

250 Ferrand Dr.
Don Mills, Ontario M3C 3J4
416/424-5000

CAPITAL MARKETS CORP.

717 17th St., Suite 200
Denver, Colo. 80202

CROCKER NATIONAL BANK

111 Sutter St., Suite 626
San Francisco, Cal. 94104
415/983-2000

DEAN WITTER REYNOLDS INC.

130 Liberty St.
New York, N.Y. 10006
212/524-3639

DEBEVOISE & PLIMPTON

875 Third Ave.
New York, N.Y. 10022
212/909-6303

DELOITTE, HASKINS & SELLS

1200 Travis
Houston, Texas 77002
713/651-1700

DILLON, READ & CO. INC.

535 Madison Ave.
New York, N.Y. 10022
212/906-7000

DONALDSON LUFKIN & JENRETTE

140 Broadway—49th Floor
New York, N.Y. 10005
212/902-2429

DUNCAN, WEINBERG, MILLER & PEMBROKE, P.C.

1615 M St. N.W.
Washington, D.C. 20036
202/467-6730

EBASCO SERVICES INC.

Two World Trade Center
New York, N.Y. 10048
212/839-2000

ELECTRIC POWER RESEARCH INSTITUTE
Box 10412
Palo Alto, Cal. 94303
415/855-2000

THE FIRST BOSTON CORP.
12 E. 49th St.
Tower 49
New York, N.Y. 10017
212/909-2921

GENERAL ELECTRIC CO.
1100 Western Ave.
Lynn, Mass. 01910
617/594-0100

GOLDMAN, SACHS & CO.
85 Broad St.
New York, N.Y. 10004
212/902-1000

HENNINGSON, DURHAM & RICHARDSON
8404 Indian Hill Dr.
Omaha, Neb. 68114
402/399-1000

KIDDER, PEABODY & CO.
10 Hanover Square
New York, N.Y. 10005
212/510-3000

E.F. HUTTON & CO., INC.
7 Hanover Sq.
New York, N.Y. 10004
212/208-5419

LUTZ, DAILY & BRAIN CONSULTING ENGINEERS
Box 718
Shawnee Mission, Kan. 66201
913/831-0833

THE C.T. MAIN CORP.
Prudential Center
Boston, Mass. 02199
617/262-3200

MATTHEWS & WRIGHT INC.
14 Wall St.-15th Floor
New York, N.Y. 10005
212/267-4470

MERRILL LYNCH CAPITAL MARKETS
One Liberty Plaza
New York, N.Y. 10080
212/637-7455

J.P. MORGAN & CO. INC.
23 Wall St.
New York, N.Y. 10015
212/483-2323

MORGAN STANLEY & CO.
1251 Ave. of the Americas
New York, N.Y. 10020
212/974-4000

MORRISON-KNUDSEN ENGINEERS INC.
Box 7808
Boise, Idaho 83729
208/386-5000

MUDGE ROSE GUTHRIE ALEXANDER & FERDON
180 Maiden Lane
New York, N.Y. 10005
212/510-7512

JOHN NUVEEN & CO., INC.
3818 Bank of California Center
900 4th Ave.
Seattle, Wash. 98164
206/587-0959

PEAT, MARWICK, MITCHELL & CO.
1601 Elm St.
Dallas, Texas 75207
214/754-2000

PRUDENTIAL-BACHE SECURITIES
100 Gold St.
New York, N.Y. 10292
212/791-3685

RESOURCE MANAGEMENT INTERNATIONAL
1010 Hurley Way #500
Box 254800
Sacramento, Cal. 95825
916/924-1534

SAFFER UTILITY CONSULTANTS INC.
3113 Lawton Rd., #177
Orlando, Fla. 32803
305/698-8531

SALOMON BROTHERS INC.
One New York Plaza
New York, N.Y. 10004
212/747-6135

SAWTELLE, GOODE, DAVIDSON & TROILO
613 N.W. Loop 410, Suite 1000
San Antonio, Texas 78216
512/349-6484

SHEARSON LEHMAN BROTHERS
American Express Tower
World Financial Center
New York, N.Y. 10285-1600
212/298-2550

SMITH BARNEY, HARRIS UPHAM
1345 Ave. of the Americas
New York, N.Y. 10105
212/399-6354

SPIEGEL & McDIARMID
Suite 1100, 1350 New York Ave. N.W.
Washington, D.C. 20005-4798
202/879-4000

STANDARD & POORS CORP.
25 Broadway
New York, N.Y. 10004
212/208-8000

STANLEY CONSULTANTS INC.
Stanley Building
Muscatine, Iowa 52761
319/264-6423

STEARNS-CATALYTIC CORP.
Box 5888
Denver, Colo. 80217
303/692-2468

STONE & WEBSTER ENGINEERING CORP.
Box 2325
Boston, Mass. 02107
617/589-5111

UTILITY POWER CO.
Box 180

Bradenton, Fla. 33506
813/748-2000

U.S. DEPARTMENT OF ENERGY LIBRARY
1000 Independence Avenue S.W.
MA232.2/Forrestal Building
Washington, D.C. 20585
202/252-5000

VERMONT ELECTRIC POWER CO., INC., Box 548
Rutland, Vt. 05701
802/773-9161

VERNER LIPPERT BERNHARD MCPHERSON AND HAND
Suite 1000, 1660 L St. N.W.
Washington, D.C. 20036
202/775-1000

VOLT ENERGY SYSTEMS INC.
1100 E. Orangethorpe Ave.
Suite 200
Anaheim, Cal. 92801
714/758-0501

WESTINGHOUSE ELECTRIC CORP.
Westinghouse Bldg., Gateway Center
Pittsburgh, Pa. 15222
412/255-3800

WOOD DAWSON SMITH & HELLMAN
17 Battery Pl.
New York, N.Y. 10004
212/244-0450

APPA Individual Associate Members

Pentti J. Aalto
90 Newton Ave.
Braintree, Mass. 02184

Alvin R. Anderson
James M. Montgomery Consulting Engineers
624 North 300 West
Salt Lake City, Utah 84103

J.R. Anderson
Mobil Coal Producing Inc.
Box 47772
Denver, Colo. 80217

Thor L. Anderson
Sverdrup & Parcel & Associates Inc.
417 Montgomery St.
San Francisco, Cal. 94104
415/392-8927

Craig Atwater
Moody's Investor Service
99 Church St.
New York, N.Y. 10007
212/553-0327

Elwood Barce
Speer Financial Inc.
55 E. Monroe, Suite 4510
Chicago, Ill. 60603
312/346-3700

Linda Beardsley
Pandick Press
345 Hudson St.
New York, N.Y. 10014
212/741-5555

David Beatty
Westpac Banking Corp.
70 W. Madison St.
Three First National Plaza, Suite 1200
Chicago, Ill. 60602
312/630-0170

Sean T. Beeny
Brand & Leckie
1901 L St. NW #480
Washington, D.C. 20036
202/347-7002

Dawn P. Beghi
Bank of America
Municipal Utility Finance, No. 5164
555 S. Flower St., 48th floor
Los Angeles, Cal. 90071

Martin Bell
Ernst & Whitney
1225 Connecticut Ave. NW
Washington, D.C. 20036

Gary R. Benjamin
Champion Inc.
Box 490
Iron Mountain, Mich. 49801

Park Benjamin
Manufacturers Hanover Trust Co.
270 Park Ave., 4th Floor
New York, N.Y. 10017
212/286-2482

Bradford L. Berglund
Theodore Barry & Associates
5775 Peachtree Dunwoody Rd.
#320C
Atlanta, Ga. 30342
404/843-3362

Arnold D. Berkeley
1819 H St., N.W., Suite 360
Washington, D.C. 20006
202/785-0611

James J. Berry
Smith & Gillespie Engrs.
Box 53138
Jacksonville, Fla. 32201
904/743-6950

Paul Bjorn
Price Waterhouse
1900 Central National Bank Bldg.
Cleveland, Ohio 44114
216/781-3700

Paul H. Blaeser
Blaeser Engineering Services, Inc.
7031 Corporate Way
Dayton, Ohio 45459
513/434-4637

Richard J. Blumenfeld
Arthur Andersen & Co.
Spear St. Plaza, Suite 3600
San Francisco, Cal. 94105
415/546-8361

Gregory L. Booth
Booth & Associates Inc.
1011 Schaub Dr.
Raleigh, N.C. 27606

George C. Bornhauser & Assoc.
6828 Old Stage Road
Rockville, Md. 20852

ASSOCIATE MEMBERS (continued)

Carl Boronkay

Metropolitan Water Dist. of Southern California
Box 54153, Terminal Annex
Los Angeles, Cal. 90054
213/250-6211

Kay Bowman

Network Computing Corp.
5301 77 Center Dr.
Charlotte, N.C. 28210
704/525-8810

Amanda Boyd

American Portfolio Advisory Service, Inc.
1001 Warrenville Rd.
Lisle, Ill. 60532
312/719-6000

Richard Boynton

Pyropower Corp.
Box 85480
San Diego, Cal. 92138

Richard B. Brady

J.S. Sawvel and Assoc.
750 N. 200 West, Suite 203B
Provo, Utah 84601
801/374-0024

Wallace E. Brand

Brand & Leckie
1901 L St. N.W.
Washington, D.C. 20036
202/347-7002

Stuart Bromberg

First Boston Corp.
1 Park Avenue Plaza, 6th Floor
New York, N.Y. 10055
212/909-3554

Michael J. Brophy

Ryley, Carlock & Applewhite
101 N. First Ave., Suite 2600
Phoenix, Ariz. 85003

Andres T. Brown

Swiss Bank Corp.
Four World Trade Center
New York, N.Y. 10048
212/938-3500

James W. Brown

Metrix, Inc.
20 Kimball Ave.
South Burlington, Vt. 05403
802/658-7858

Ronald S. Brown

Burns & Roe
1400 K St. N.W., #910
Washington, D.C. 20006
202/898-1500

Stephen Bucalo

Plantec Corp.
Box 52507
Jacksonville, Fla. 32201

William H. Burchette

Heron, Burchette et al
1025 Thomas Jefferson St. N.W.
Washington, D.C. 20007
202/775-9141

Alan A. Burgess

Arthur Andersen & Co.
133 Peachtree St., N.E. #2689

Atlanta, Ga. 30303
404/658-1776

Steven C. Butterworth

Bibb & Associates Inc.
Box 37, Shawnee Mission, Kan.
66201

Ellen Callahan

Putnam Management Co.
One Post Office Square
Boston, Ma. 02109
617/292-1400

Leonard M. Campbell

Gorsuch Kirgis Campbell Walker & Grover
1200 American National Bank Bldg.
Denver, Colo. 80202

J. Vincent Carey

Alpha Omega International Corp.
12919 Lake Ave.
Lakewood, Ohio 44107

F. R. Carpentier

United Engineers & Constrs. Inc.
Box 8223
Philadelphia, Pa. 19101
215/422-3000

Philip L. Chabot

Law Offices of Philip Chabot,
Chartered, Suite 800
1990 M St. N.W.
Washington, D.C. 20036
202/737-5046

M. L. Chan

ECC, Inc.
1530 The Alameda, Suite 300
San Jose, Cal. 95126
408/280-5494

Herman R. Charbonneau

Chemical Bank
277 Park Ave.
New York, N.Y. 10172
212/310-6161

Janjai Chayavadhanangkur

Southern Engineering Co. of Georgia
1800 Peachtree St., N.W.
Atlanta, Ga. 30367

William V. Cheesman

Merrick & Co.
10855 E. Bethany Dri.
Box 22026
Denver, Colo. 80122

Saf Cianella

Touche Ross & Co.
370 17th St.
Denver, Colo. 80202
303/861-4462

Linda A. Clark

Boettcher & Co., Inc.
828 Seventeenth St.
Denver, Colo. 80202
303/628-8362

Natalie R. Cohen

Enhance Reinsurance
360 Madison Ave., 6th Floor
New York, N.Y. 10017
212/983-3100

C.J. Collins

Empire Engineering
420 E. Tennessee St.
Syracuse, N.Y. 13202
312/475-0120

John V. Connorton Jr.

Hawkins Delafield & Wood
67 Wall St.
New York, N.Y. 10005
212/820-9300

O. Wayne Corley

McNair Glenn Konduros & Corley
Box 11390
Columbia, S.C. 29211
803/799-9800

Charles B. Crane

Marsh & McLennan Inc.
720 Olive Way
Seattle, Wash. 98101

Thomas S. Currier

Dewey Ballantine Bushby Palmer & Wood
140 Broadway, #4364
New York, N.Y. 10005

Stephen Page Daniel

gds Associates, Inc.
1850 Parkway Place, Suite 720
Marietta, Ga. 30067
404/425-8100

William G. Davidson

Ferranti International Controls Corp.
Box 5012
Sugar Land, Texas 77487-5012
713/274-5420

Charles Day

V.-Pres.
Exotech Computer & Energy Inc.
2716 E. Lake St.
Minneapolis, Minn. 55406

Dan C. Delurey

Xenergy Inc.
60 Mail Rd.
Burlington, Mass. 01803
617/273-5700

Nancy M. Deprey

Union Mutual
2211 Congress St.
Portland, Maine 04105

Michael G. Derrick

Siemens-Allis
2888 Woodcock Blvd., #300
Atlanta, Ga. 30341

H.B. DeVunn

Control Data
2300 Berkshire Lane N.
Plymouth, Minn. 55441
612/553-4901

M.A. DiLeo

V.-Pres.-Marketing
Multi-Amp Corp.
4271 Bronze Way
Dallas, Texas 75237

C. Brooke Dormire

Dewey Ballantine Bushby Palmer & Wood
101 Park Ave.
New York, N.Y. 10178

Tom C. Dortch

Multi-Amp Corp.
4271 Bronze Way
Dallas, Texas 75237

Gerard T. Drumm

Bankers Trust Co./Pub. Finance
280 Park Ave., 9 W
New York, N.Y. 10015
212/775-2445

C. Emerson Duncan II

Duncan, Allen and Mitchell
1575 Eye St. N.W.
Washington, D.C. 20005
202/289-8400

Kenneth W. Duval

Southern Electric International Inc.
3500 Piedmont Rd. N.E., #500
Atlanta, Ga. 30305
404/261-4700

Warren N. Eckloff

Coughlin & Co. Inc.
621 17th St., #1900
Denver, Colo. 80202
303/295-3000

Robert L. Ehlers

Ehlers and Associates Inc.
507 Marquette Ave.
Minneapolis, Minn. 55402
612/339-8291

Dennis J. Enright

Thomson McKinnon Securities
1 New York Plaza
New York, N.Y. 10004

John Erickson

Union Bank
445 South Figueroa St.
Los Angeles, Cal. 90071

Vincent T. Fahy

esa International Consultants
79 Randolph Ave.
Milton, Ma. 02186
617/696-1875

Stephen Finch

Dexsil Chemical Corp.
295 Treadwell St.
Hamden, Conn. 06514

John E. Fisher

Lawson-Fisher Associates
525 W. Washington St.
South Bend, Ind. 46601

John C. Fitzgerald

Seidler-Fitzgerald Public Finance
515 S. Figueroa St. #600
Los Angeles, Cal. 90071-3396
213/624-4232

Ned Flecke

Bowne of New York City, Inc.
345 Hudson St.
New York, N.Y. 10014
212/924-5500

Barry R. Flynn

Flynn and Associates
1730 S. Amphlett Blvd.
Suite 215
San Mateo, Ca. 94402
415/574-8877

Thomas Gamello
Prescott Ball & Turben
1 World Trade Center, 56th Floor
New York, N.Y. 10048
212/938-7200

Gary L. Ganz
Planmetrics Inc.
8700 W. Bryn Mawr Ave.
#800 N
Chicago, Ill. 60631
312/693-0200

T. Michael Garrison
A. C. Kirkwood & Associates
8080 Ward Parkway, Suite 200
Kansas City, Mo. 64114
816/333-4477

Francis B. Garvey
Wertheim & Co., Inc.
200 Park Ave.
New York, N.Y. 10166
212/578-0735

Ralph J. Gillis
Suite 227, 160 Old Derby St.
Hingham, Mass. 02043
617/749-2432

Webb R. Gilmore
Gaar & Bell
State 1620 City Ctr. Sq.
1100 Main
Kansas City, Mo. 64105

Andrew C. Givens
Booth & Associates, Inc.
1011 Schaub Dr
Raleigh, N.C. 27606

Mel Goldenburg
Aspen Systems Corp.
1600 Research Blvd.
Rockville, Md. 20850
301/251-5000

Samuel S. Granberg
Seattle Northwest Securities Corp.
Seafirst 5th Ave. Plaza, #3700
Seattle, Wash. 98104

Robert E. Grimshaw
Hydropower Advisory
9141 Tanglewood Lane
Loomis, Cal. 95650

C.H. Guernsey Jr.
National Foundation West Bldg.
3555 N.W. 58th
Oklahoma City, Okla. 73112
405/947-5515

Gary D. Gustafson
Nebraska Power Review Board
Box 94713, Lincoln, Neb. 68509
402/471-2301

Richard Y. Guthrie
American National Bank & Trust Co.
33 North La Salle St.
Chicago, Ill. 60690
312/661-6118

Jess L. Haley
Gregory-Grace/Jess Haley Div.
Box 369
Clarksdale, Miss. 38614

J. C. Hall
First Southwest Co.
800 Mercantile Dallas Building
Dallas, Texas 75201
214/742-6461

James S. Hamm
Benham Holway Group
5314 S. Yale Ave.
Tulsa, Okla. 74135

Nigel Harris
Harris Computer Systems
16 Credit Union Way
Nepean, Ontario, K2H 8R6
613/829-8888

Keith E. Herreman
Advanced Control Systems
Box 47824
Atlanta, Ga. 47824
404/451-4586

R. Eugene Herritz
Virchow Krause & Co.
Box 7398, Madison, Wis. 53707
608/249-6622

Joseph A. Herz
J.S. Sawvel & Associates
319 N. Blanchard
Box 1306
Findlay, Ohio 45839
419/422-4812

Gregory C. Hickok
Chase Manhattan Bank
1 Chase Manhattan Plaza, 25th Floor
New York, N.Y. 10081

John Higley
Energy Management Associates Inc.
100 Northcreek, Suite 500
Atlanta, Ga. 30327
404/261-5256

Phillip H. Holm
Chapman & Cutler
50 South Main St., Suite 800
Salt Lake City, Utah 84144
801/533-0066

W. N. Holway
Benham-Holway Power Group
5314 South Yale, Park Towers
Tulsa, Okla. 74135
918/492-1600

Brent F. Hoots
Boettcher & Co., Inc.
828 17th St. Suite 302
Denver, Co. 80202
303/628-8000

Patricia A. Howell
Xenergy, Inc.
60 Mall Road
Burlington, Mass. 01803
617/273-5700

Masazumi Inohara
The Tokyo Electric Power Co.
1901 L St. N.W.
Washington, D.C. 20036
202/457-0790

Harold W. Jack
Bank of America
Municipal Utility Finance, No. 5164

555 S. Flower St., 48th floor
Los Angeles, Cal. 90071

Terrence J. Jackson
North American Coal Corp.
12800 Shaker Blvd.
Cleveland, Ohio 44120
216/752-1000

Elliot G. Jennings
Resource Development Associates
4141 Col. Glenn Highway #332
Dayton, Ohio 45431

John C. Jones
Illman Jones, Inc.
1111 Green Island Rd.
American Canyon, Cal. 94589

Richard M. Jones
O'Melveny & Myers
400 South Hope St.
Los Angeles, Cal. 90071

Wayne Joyce
Joyce, Gray & Associates, Inc.
RR #1, Box 102 E
Norman, Okla. 73069

John D. Julien
H.J. Umbaugh and Associates
1500 Oak Rd.
Plymouth, Ind. 46563
219/935-5178

Robert M. Keith
Management Resources International
Inc., Box 201
Reading, Pa. 19603
215/375-7851

Peter J. Kenny
Willkie Farr & Gallagher
153 East 53rd St., One Citicorp
New York, N.Y. 10022

Dana King
PSA Learning Systems
9850 Carroll Canyon Road
San Diego, Cal. 92131
619/574-2100

Peter Kissel
O'Connor & Hannan
1919 Penn. Ave. N.W. #800
Washington, D.C. 20006
202/887-1400

D.J. Koefger
Trading Systems Int'l.
One Jackson Square, #630
Jackson, Mich. 49201
517/782-0369

William K. Kramer
Morrison & Foerster
333 S. Grand Ave., Suite 3800
Los Angeles, Cal. 90071
213/626-3800

John D. Kuhns
Catalyst Energy
180 Maiden Lane
New York, N.Y. 10038

Arthur H. Kuljian
The Kuljian Corp.
3700 Science Center
Philadelphia, Pa. 19104

Joseph C. Lane
First National Bank of Chicago
1 First National Plaza, #0363
Chicago, Ill. 60670

Merlin T. Lebakken
Power System Engineering Inc.
101 West Beltline Highway
Madison, Wis. 53713
608/251-3155

John Lenssen
City Attorney
City of Espanola
Drawer 37
Espanola, N.M. 87532

William M. Lewis Jr.
William M. Lewis Jr. & Assoc.
Box 1383
Portsmouth, Ohio 45662
614/354-3238

Stanley L. Livengood
Arch W. Roberts & Co.
Box 13394
Gainesville, Fla. 32604

Kathy Wood Loveless
Kirchner Moore/Drexel Burnham
Lambert
115 S. Main St. #420
Salt Lake City, Utah 84111
801/538-0351

Robert Loveless
Charles P. Young Co.
1019 E. North Ave.
Olney, Ill. 62450

Ronald C. Lutwen
Solid Fuel Technology Inc.
5650 W. Central Ave., Suite A
Toledo, Ohio 43615

Robert MacDonald
James J. Lowrey & Co. Inc.
110 Wall St., 27th Floor
New York, N.Y. 10005
212/363-2000

Peter Madonia
Bankers Trust Co.
Box 318
Church Street Station
New York, N.Y. 10015

Robert O. Marritz
Culp, Dwyer, Guterson & Grader
2700 One Union Sq.
Seattle, Wash. 98101

Steven S. McAleer
Municipal Issuers Service Corp.
445 Hamilton Ave., Box 788
White Plains, N.Y. 10602

Robert L. McCarty
Heron, Burchette, Ruckert & Rothwell
Suite 700
1025 Thomas Jefferson St. N.W.
Washington, D.C. 20007

Janice McCord
Power Ahead Ltd.
49 Wellington St. East
Suite 301
Toronto, Ont. M5E 1C9

ASSOCIATE MEMBERS (continued)

Larry K. McCracken

McCracken, Wilcox & Bertoux
601 University Ave.
Suite 236
Sacramento, Cal. 95825
916/929-7723

Robert Meredith

Harza Engineering Co.
150 S. Wacker Dr.
Chicago, Ill. 60606

Joel Mesznik

Drexel Burnham Lambert Inc.
60 Broad St.
New York, N.Y. 10004
212/480-7810

Charles W. Meyers

Miner and Miner
Box 548
910 27th Ave.
Greeley, Colo. 80632-0548
303/352-3706

Richard R. Miller

Dain Bosworth, Inc.
100 Dain Tower, 4th Floor
Minneapolis, Minn. 55402
612/371-2711

Robert P. Mitchell

Sherman & Howard
633 17th St.—2900 Intrawest
Denver, Colo. 80202

Maynard L. Moe

Dencor
1450 West Evans
Denver, Colo. 80223

Margaret Morgan

Coopers & Lybrand
3 Mellow Bank Center
Philadelphia, Pa. 19102
215/587-5000

Richard Morgan

O'Connor and Hannan, Suite 800
1919 Pennsylvania Ave. N.W.
Washington, D.C. 20006-3483

James Morris

Deloitte Haskins & Sells
1200 Travis
Houston, Texas 77002

R.L. Morris

Ferranti International Controls Corp.
Box 5012
Sugar Land, Texas 77487-5012
713/274-5420

Gordon Martin

Lex Jolley Inc.
1508 William Oliver
Atlanta, Ga. 30303
404/525-1859

Steve Nau

4704-B Rookwood Place
Waldorf, Md. 20601

Bob Neufeld

Kirchner Moore & Co.
717 17th St.
Suite 2700
Denver, Colo. 80202
303/292-1600

Walter W. Nixon

Hale, Ward, Young, Green & Morley
One Broadway River Center
628 Broadway
Little Rock, Ark. 72214
501/376-4000

Sharon K. Ochs

Nixon, Hargrave, Devans and Doyle
One Thomas Circle, 8th floor
Washington, D.C. 20005

Richard L. Olsson

Boardman Suhr Curry & Field
Box 927, Madison, Wis. 53701-0927
608/257-9521

John E. Olsson

Olsson Associates
Suite 611, wcc Center
Lincoln, Neb. 68508

Robert A. O'Neil

Miller, Balis & O'Neil, P.C.
1101 Fourteenth St., NW
Suite 1400
Washington, D.C. 20005
202/789-4462

Donald S. Page

Asplundh Tree Expert Co.
Blair Mill Rd.
Willow Grove, Pa. 19090

John W. Pestle

Varnum, Riddering & Schmidt
800 Mutual Home Building
Grand Rapids, Mich. 49503
616/459-4186

Kathy Pooler

Marsh & McLennan, Inc.
8801 Folsom Blvd.
Suite 175
Sacramento, Cal. 95826-4440
916/381-9180

Jeffrey L. Premo

Downes Associates Inc.
Rt. 6, Box 688, Delmar Rd.
Salisbury, Md. 21801
301/546-4422

Richard L. Preston

Scientific Atlanta Inc.
4300 N.E. Expwy., Box 105038
Atlanta, Ga. 30348
404/449-2000

Steven I. Raemer

Radix Corp.
4745 Wiley Post Way
650 Plaza 6
Salt Lake City, Utah 84116
801/537-1717

Donald B. Reid

Westpac Banking Corp.
70 W. Madison St.
Three First National Plaza, Suite 1200
Chicago, Ill. 60602
312/630-0170

James L. Rhiner

McGraw-Edison/SPI
Box 1205
7601 Durand Ave.
Racine, Wis. 53405
414/554-5600

Frederick H. Ritts

Ely, Ritts, Brickfield and Betts
600 New Hampshire Ave. N.W.
Washington, D.C. 20037
202/342-0800

A. Francis Robinson Jr.

Brown Wood Ivey Mitchell & Petty
One World Trade Center
New York, N.Y. 10048
212/839-5323

George I. Roen

Cresap, McCormick & Paget
595 Market St. #1200
San Francisco, Cal. 94105
415/781-8421

David Rose

James J. Lowrey & Co.
110 Wall St.
New York, N.Y. 10005

Cheryl Ross

Prudential Insurance Co.
Financial Research Center
Gateway Three - 2nd Floor
Newark, N.J. 07102
201/349-5540

Janice J. Rowan

Radix Corp.
4745 Wiley Post Way
650 Plaza 6
Salt Lake City, Utah 84116

Steven W. Ruback

The Columbia Group, Inc.
5 North Meadow Rd.
Medfield, Mass. 02052

John D. Ryan

Combustion Engineering Inc.
1000 Prospect Hill Rd.
Windsor, Conn. 06095
203/688-1911

Joseph Ryan

O'Melveny & Myers, 400 S. Hope St.
Los Angeles, Cal. 90071
213/669-6000

Sanford J. Sacks

AMBAC Indemnity
1 State Street Plaza
New York, N.Y. 10004
212/668-0340

Norman St. Martin

Chempro Data Sciences Corp.
507 Southampton Road
Wakefield, Mass. 01085
413/562-2353

Gary S. Saleba

Economic & Engineering Services, Inc.
Box 4046, Bellevue, Wash. 98009
206/451-8015

Roger W. Sant

Applied Energy Services, Inc.
1925 N. Lynn St.
Arlington, Va. 22209
703/522-1315

Steve Schrager

L.F. Rothschild, Unterberg, Towbin
55 Water St.
New York, N.Y. 10041
212/412-1146

Judith Schumann

Aztech Financial Printers
227 East 45th St.
New York, N.Y. 10017
212/986-3000

Curt Schwalbe

O'Brien & Gere Engineers
Box 4873
Syracuse, N.Y. 13221

Tim Seise

Southeast Information Systems
Engineering Inc.
8382 Baymeadow Road #7
Jacksonville, Fla. 32216
904/731-9910

Robert L. Setzer

Robinson Humphrey/American
Express
3333 Peachtree Rd. N.E.
Atlanta, Ga. 30326
404/266-6038

Robert M. Shepherd

Donovan Leisure Newton & Irvine
30 Rockefeller Plaza
New York, N.Y. 10012

Philip Sherlock

Dames & Moore
4950 West Kennedy Blvd.
Suite 410
Tampa, Fla. 33609
813/875-8720

Bernard L. Smith Jr.

Bond Investors Guaranty
70 Pine St., 47th Floor
New York, N.Y. 10270

Dick Snyder

Cresap, McCormick & Paget
2101 L St. N.W. #400
Washington, D.C. 20037

Gilbert B. Sorg

Sorg Printing Co.
111 8th Ave.
New York, N.Y. 10011
212/741-6600

Wendy K. Stadnyk

MBIA, 445 Hamilton Ave.
White Plains, N.Y. 10601

Dan T. Stathos

Deloitte Haskins & Sells
500 N. Akard, #1400
Dallas, Texas 75201
214/954-4500

Shelley Stein

AMBAC Indemnity
1 State Street Plaza
New York, N.Y. 10004
212/668-0340

John G. Stensland

FMC Corp., Air Quality Control
1501 Woodfield Road, #300 East
Schaumburg, Ill. 60173
312/843-1700

Peter K. Sternad

Bank of America, #5164
555 South Flower St., 48th Fl.
Los Angeles, Cal. 90071
213/228-4244

Patricia Stokes
Thomasson Lumber Co.
Pole Division
Box 490
Philadelphia, Miss. 39350
601/656-6000

Joe A. Stoltz
MATSCO
4271 Bronze Way
Dallas, Texas 75237
214/333-3201

Harold J. Straka
Price Waterhouse
1801 K St. N.W.
Washington, D.C. 20006

Arthur John Stremiaw
snc Ltd.
1925 Pine Ave.
Niagara Falls, N.Y. 14301-2398

Z. Stanley Stys
Brown Boveri Corp.
1460 Livingston Ave.
North Brunswick, N.J. 08902

John S. Tamagni
Lazard Freres and Co.
1 Rockefeller Plaza
New York, N.Y. 10020
212/489-6600

Greg Tarasar
Touche Ross & Co.
1 S.W. Columbia #1500
Portland, Ore. 97258-2090
214/220-8057

Blake Tarti
Fulbright & Jaworski
1301 McKinney
Houston, Texas 77010
713/651-5151

Lloyd Taylor
Seattle-Northwest Securities Corp.
Suite 3400, 800 Fifth Ave.
Seattle, Wash. 98104
206/628-2879

J. Leroy Thilly
Boardman, Suhr, Curry Field
Box 927, Madison, Wis. 53701
608/257-9521

Maria Markham Thompson
Oppenheimer and Company
World Financial Center
New York, N.Y. 10281
716/853-7525

Patrick M. Thompson
Access Corp.
Parkview Towers, Suite 1200
210 25th Ave. N.
Nashville, Tenn. 37204

Stewart N. Thompson
Acres International Corp.
424 Main St., Suite 1000, Liberty
Bldg.
Buffalo, N.Y. 14202-3592
212/667-7000

Robert D. Thorington
Johnson & Thorington
Drawer 1748

Montgomery, Ala. 36103
205/834-6222

J. V. Tomai III
Network Computing Corp.
5301 77 Center Drive, Suite 40
Charlotte, N.C. 28210

James B. Vasile
Newman and Holtzinger
1615 L St. N.W.
Washington, D.C. 20036
202/955-6600

Lori Vein
Salomon Brothers, Inc.
One New York Plaza
BMR - 41st Floor
New York, N.Y. 10004
212/747-6135

Richard J. Vensas
Daverman Associates
82 Ionia Ave. N.W.
Grand Rapids, Mich. 49503

James J. Victory
Kvaerner Hydropower
Box 7067
San Francisco, Cal. 94120
415/777-3800

Charles D. Vining
Hartford Steam Boiler Co.
One State St.
Hartford, Conn. 06102
203/722-5624

Stephen Walke Jr.
Paterson, Walke & Pratt
Box 1310, Montpelier, Vt. 05602
802/229-5737

C. Richard Walker
Orrick, Herrington & Sutcliffe
600 Montgomery St.
San Francisco, Cal. 94111
415/392-1122

H.B. Wall
Graybar Electric Company, Inc.
Box 7231
Clayton, Mo. 63177

William C. Warburton
Advanced Energy Corp.
611 Broadway, Suite 630
New York, N.Y. 10012
212/505-7850

Edward Watson
City of Rochester, 300 B City Hall
Rochester, N.Y. 14614
716/428-6855

Tom Watson
Crowell & Moring
1100 Connecticut Ave. N.W.
Washington, D.C. 20036
202/452-5843

Alan R. Watts
Rourke & Woodruff
1055 N. Main St., Suite 1020
Santa Ana, Cal. 92701
714/835-6212

Judson Werbelow
Dickinson, Wright, Moon, Van Dusen
& Freeman

215 So. Washington Sq., Suite 200
Lansing, Mich. 48933
517/371-1730

Lee C. White
White, Fine & Verville
1156 15th St. N.W. #1100
Washington, D.C. 20005
202/659-2900

Donald M. Whitney
Whitney Associates
Box 155, 201 S. Main St.
No. Syracuse, N.Y. 13212
315/458-2059

Raymond Whritenour
BHCWA
Box 253
Butler, N.J. 07405

David C. Willer
Tudor Engineering Co.
301 Mission
San Francisco, Cal. 94105

Christopher D. Williams
Heron, Burchette, Ruckert & Rothwell
Suite 700
1025 Thomas Jefferson St. N.W.
Washington, D.C. 20007

W. J. Williams Jr.
Wright, Lindsey & Jennings
2200 Worthen Bank Building
Little Rock, Ark. 72201

J. L. Williamson
Kearney Div. of Kearney National
Box 49167, Atlanta, Ga. 30329

Carla A. Wrocklage
Keystone Custodian Funds
99 High St., 31st Floor,
Boston, Mass. 02110
617/338-3250

Douglas A. Yorke Jr.
Wertheim, Schroder & Co., Inc.
200 Park Ave.
New York, N.Y. 10166-0090

S. John Zuckernick
Teshmont Engineering Inc.
1805 N. Scottsdale Road, Suite 4
Tempe, Ariz. 85281
602/945-1598

Other APPA Members

**IRRIGATION & ELECTRICAL
DISTRICTS' ASSOCIATION OF
ARIZONA**
2845 East Camelback Road #720
Phoenix, Ariz. 85016

BAHAMAS ELECTRICITY CORP.
Box N-7509
Nassau, The Bahamas
3254101-4

BELIZE ELECTRICITY BOARD
Box 327
Belize City, Belize
Central America, BEB272 B2

**AZIENDA ENERGETICA MUNICIPALE-
MILANO**

Corsodi Porta Vittoria 4
Milano, Italy 20112

**TRINIDAD AND TOBAGO ELECTRIC
COMMISSION**
Box 121 - 63 Frederick St.
Port of Spain, Trinidad
West Indies
36291

**VERBAND KOMMUNALER
UNTERNEHMEN e.v.**
Brohler Strabe 13
D 5000 Koln
West Germany

**VERBAND DER
ELEKTRIZITÄTSWERKE ÖSTERREICH**
Brahmsplatz 3
Vienna A1040
Austria

WESTERN FUELS ASSOCIATION INC.
Magruder Building
1625 M Street N.W.
Washington, D.C. 20036

public power

A POWERFUL MARKET

Your ad in PUBLIC POWER
magazine reaches:

- All of the nation's 2,203 publicly owned electric utilities
- All of the 924 rural electric cooperatives
- All 13 federal power agencies.



That's a mighty
powerful market

CABLE COMMUNICATION SYSTEMS

<i>Cable System by State</i>	<i>Person in charge Phone</i>	<i>Year Started</i>	<i>Subscribers</i>	<i>Channels</i>	<i>Basic Monthly Rate</i>	<i>Utility Use</i>	<i>Structure</i>	<i>Financing</i>
ALABAMA								
<u>Riviera Utilities</u> 413 East Laurel Ave. Box 550 Foley 36536	H. Sewell St. John Jr. 205/943-5001	1982	2,117	26	\$10.50	No	Separate function of utilities board	Retained earnings of utilities board
<u>Lincoln Cable TV</u> Box 172 Lincoln 35096	C.L. Watson 205/763-7777	1983	685	22	10.00	No	Separate department	City loan
<u>Opp Cablevision</u> Box 311 Opp 36467	Charles McGowan 205/493-4571	1967	2,896	25	9.00	No	Under utility department	City operating revenues
ARKANSAS								
<u>Conway Corporation</u> Box 99 Conway 72032	James H. Brewer 501/329-5641	1980	6,598	22	8.95	Load control, metering	Owned by city and leased to municipal Conway Corp.	Loan from utility department
CALIFORNIA								
<u>San Bruno Municipal Cable TV</u> 567 El Camino Real San Bruno 94066	David A. Thomas 415/877-8889	1971	9,800	58	9.00	No	Separate department	Rebuilt with departmental revenues
COLORADO								
<u>Center Municipal Cable System</u> Box 400 Center 81125	Darrell T. Davis 303/754-3497	1984	474	13	7.50	Load control	Separate entity controlled by utility board	Loan from utility surplus to be paid back by cable department with interest.
<u>Copper Mountain Metropolitan District Cable TV</u> Box 3001 Copper Mountain 80443	Ray Bishop 303/968-2882 ext. 6440	1976	811	11	16.00	No (investigating)	Metropolitan District (similar to city government)	General obligation bonds
FLORIDA								
<u>City of Newberry</u> City Hall Newberry 32669	LaRoy Paulson 904/472-2161	1974	595	18	8.00	No	Part of utility department	Cable fund
<u>City of Valparaiso Communications System</u> Box 296 44 Southview Ave. Valparaiso 32580	Burt B. Bennett 904/678-2922	1976	1,440	32	7.50	Yes	City agency providing: burglar, fire, assault alarm; well-monitoring; phase reversal, sewer lift station & well monitoring.	
GEORGIA								
<u>City of Covington CATV</u> Box 1527 Covington 30209	Gary Curtis 404/786-5324	1980	4,113	24	9.95	Air-conditioning load management planned	Separate cable department	City's general fund
<u>City of Monroe</u> Box 725 Monroe 30655	John T. Briscoe Jr. 404/267-5756	1972	3,556	36	5.00	Air-conditioning load management	Under utility department	Cable fund
ILLINOIS								
<u>City of Madison</u> Box 87 Madison 62060	D. Sipes 618/877-4854	1984	125	No TV		Burglary, fire and emergency services	Separate alarm and cable department	City's general fund
IOWA								
<u>Ceen Rapids Cable System</u> 123 Third Avenue Box 207 Ceen Rapids 50058	Eugene P. Smith 712/684-2225	1982	374	16	9.50	Utility alarm	Operated by utility; separate board for policy	Utility reserve funds

Publicly owned cable communication systems in cities or towns served by local publicly owned electric utilities are underlined.
When two numbers are listed under "Channels" the first is the number in use and the second is the number available.

<i>Cable System by State</i>	<i>Person in charge Phone</i>	<i>Year Started</i>	<i>Subscribers</i>	<i>Channels</i>	<i>Basic Monthly Rate</i>	<i>Utility Use</i>	<i>Structure</i>	<i>Financing</i>
Hartley Municipal Cable System 169 South Central Ave. Hartley 51346	Dean Meyer 712/728-2240	1983	557	22	9.00	Maybe load management	Separate department	Loan from surplus electric funds
Manilla Municipal Cable 166 6th Ave. Manilla 51454	James H. Macumber 712/654-3952	1983	300	12	9.95	No	Within utility department	Loan from electric fund
Manning Municipal Cable Board 719 Third St. Manning 51455	Gerald Beck 712/653-3214	1982	510	20-30	10.50	Load management in 1984.	Operated by separate board	Electric revenue bonds for load management; gas department surplus for the rest
Primghar Municipal Cable TV 155 1st St. S.W. Primghar 51245	Robert Mulder 712/757-2435	1981	314	25	9.50	Load management	Part of utility department	General obligation bonds
Community Cable Television City of Sanborn Sanborn 51248	Allen Bonderman 712/729-3974	1981	404	26-36	8.50	Load management/air conditioners and water heaters	Operated by utility; separate programming band	Utility funds and corporation revenue bonds
KANSAS								
Americus City CATV Americus 66835	Clifford Bausman 316/443-5655	1976	381	9	12.00	No	Separate cable department	Revenue bonds
Arma Cablevision City of Arma Box 829 Arma 66712	Mavis Masterson 316/347-4125	1981	336	13-14	9.00	No	Separate cable department	Cable revenue bonds
Baxter Cable Vision City of Baxter Springs Box 577 Baxter Springs 66713	C. Michael Hall 316/856-2727	1980	1,175	12	9.78	Emergency weather alert	City-owned, separate city department	Industrial revenue bonds
City of Cawker City Box 2 Cawker City 67430	Delbert Wallace 913/781-4713	1977	240	17	10.00	No	Separate department	Revenue bonds
Columbus Cablevision 300 East Maple Columbus 66725	Gail Houser 316/429-2159	1980	871	10	9.50	Emergency disaster warning	Separate city department	Revenue bonds
City of Pawnee Rock Cable Television Utility Box 218 Pawnee Rock 67567	Doris Bryan 316/982-4386	1983	79	9	24.00	No	Separate city utility department	Cable revenue bonds
KENTUCKY								
Community Service, Incorporated 325 Ann St. Frankfort 40601	Ben Fowler 502/227-7513	1952	9,963	24	4.50	No	Nonprofit corporation	Initial loan from electric funds; later from cable revenues
MARYLAND								
The Eastern Utilities Commission 11 South Harrison St. Box 1189 Easton 21601	Roger Judd 301/822-6110	1984	2,100	37-64	8.00	Meter reading and load control planned	Owned by town, operated by separate department of utilities commission	General obligation bonds
MASSACHUSETTS								
Shrewsbury's Electric Light Plant 100 Maple Ave. Shrewsbury 01545	Thomas R. Josie 617/845-4881	1983	6,700	80	12.95	Energy management planned	Division of utility	General obligation bonds
MICHIGAN								
City of Crystal Falls 401 Superior Ave. Crystal Falls 49920	Walter E. Hagglund 906/875-6650	1959	835	10-21	4.50	No	Part of utility	Loan from city's general fund

<i>Cable System by State</i>	<i>Person in charge Phone</i>	<i>Year Started</i>	<i>Subscribers</i>	<i>Channels</i>	<i>Basic Monthly Rate</i>	<i>Utility Use</i>	<i>Structure</i>	<i>Financing</i>
City of Negaunee Cable Television System Box 70 Negaunee, Mich. 49866	John D. Korhonen 906/475-7700	1984	1,168	23	6.00	No	Separate department	Utility reserve funds
City of Norway CATV Box 194 Norway 49870	Leonard Moreska 906/563-9641	1954	1,458	21	4.00	No	Part of utility	Utility general fund
Wyandotte Municipal Service 3005 Biddle Ave. Wyandotte 48192	Dale Simmons 313/282-7100 ext. 364	1982	7,870	52	8.00	Future use planned	Separate department within utility	Lease system from private investors with purchase agreement at a fixed date
MINNESOTA								
Bagley City Cable TV Box M Bagley 56621	Bernie Stavig 218/694-2300	1976	534	12	8.65	No	Within utility department	Cable revenue bonds
City of Fosston Cable TV 220 First St., N.E. Fosston 56542	Russell Earls 218/435-1737	1976	600	12	6.75	Load management	Under utility	Cable revenue bonds
Jackson Municipal TV System 80 W. Ashley St. Jackson 56143	Curt Egeland 507/847-3225	1957	1,551	13	6.00	No	Separate department	Installation fees of original subscribers
City of Marble Box 38 Marble 55764	Candise Orazem 218/247-7147	1983	210	12	7.00		Part of city government	General fund
Windom Cable Communications System 444-9th St. Windom 56101	Dennis Nelson 507/831-2363	1985	1,150	23	9.95	No	Separate entity owned by city	Loan from utility commission
MISSOURI								
Newburg Cable TV System Drawer K Newburg 65550	Barbara Macormic 314/762-2315	1968	250	13	7.50	No	Operated through city hall	Borrowed from private development corporation
Unionville Cable Authority 1621 Grant St. Box 206 Unionville 63565	Morgan J. Brown 816/947-3316	1980	770	12	10.50	No	Separate nonprofit board	Cable revenue bonds
OREGON								
Cascade Locks CATV Box 308 Cascade Locks 97014	503/374-8484	1972	366	12	9.00	No	Separate department administered by council	Cable revenue bonds
Town of Lexington Lexington 97839	Mayor Robert Taylor 503/989-8508	1959	100	8	5.00		Separate department administration by council	Cable service revenues
PENNSYLVANIA								
New Wilmington Borough Cable TV 140 West Neshannock Ave. New Wilmington 16142	Ed Garrett 412/946-8167	1979	425	20	6.00	No	Separate department	General fund
Pitcairn Community Antenna System 582 Sixth St. Pitcairn 15140	George Myers 412/372-6500	1953	993	17	6.00	No	Under light department	Installation fees of original subscribers, (\$75.00) and bank loans
SOUTH DAKOTA								
City of Beresford 101 North Third St. Beresford 57004	Wayne Aklund 605/763-2500	1983	546	12-21	7.95		Maintained by telephone department	General city fund
WASHINGTON								
City of Sumas TV Cable System Box 9, Cherry St. Sumas 98295	Lawrence Silvis 206/988-5711	1953	300	2-13	7.50	No	Municipal department	City light fund
North Bonneville Box 7 North Bonneville 98639	Ray Hays 509/427-8182	1982	140	11	8.00		Part of utility department	Cable service revenue

Cable System by State	Person in charge Phone	Year Started	Subscribers	Channels	Basic Monthly Rate	Utility Use	Structure	Financing
WISCONSIN								
City of Oconto Falls 104 South Franklin St. Box 70 Oconto Falls 54154	George Barber 414/846-2911	1981	581	26	9.50	Maybe meter reading	Under utility commission	Bank loan backed by city
Town of Two Creeks 5711 Nuclear Rd. Two Rivers 54241	Mary Ann Cherveney 414/755-2221	1986	145	30-52	Free	Nuclear emergency warning	Part of city government	Nuclear plant taxes

The following publicly owned utilities use privately owned cable systems for utility functions:

Palo Alto (Cal.) Elec. Util. uses cable for computerized traffic control, utility information programs and voice, and will use it for SCADA. Bill Kubicki, principal elec. engr.; 415/329-2631.

Longmont (Colo.) Elec. Util. uses cable for a SCADA system which monitors and controls the power network within the utility. Jeff Gould, elec. dir.; 303/776-6050.

Leesburg (Fla.) uses fiber optic cable for telephone, computer, and SCADA systems.

J.M. Tardugno, util. supt.; 904/787-4252.

Richmond (Ind.) Power and Light has placed the National Weather Service radar video signal on the local CATV system. Irving Huffman, gen. mgr.; 317/935-3131.

Rowley (Mass.) Mun. Lighting Plant is testing the economic, technical and operational feasibility of remote meter reading and billing of 100 meters. G. Robert Merry, mgr.; 617/948-3992.

Benson (Minn.) uses cable for load management to control air conditioners, space heaters and water heaters. Del Preheim, city mgr.; 612/843-4775.

Willmar, (Minn.) Mun. Utils. Comm. uses cable to control air conditioners, water

heaters and downtown streetlighting. C. Ted Nelson, gen. mgr.; 612/235-4422.

Lincoln (Neb.) Elec. System will test cable for load control, remote meter reading and SCADA. James L. Miller, mgr. of engr. ser.; 402/467-7619.

Bath (N.Y.) Elec., Gas, & Water Systems uses cable for load shedding. W.N. Wrinkle; 607/776-3072.

Wake Forest (N.C.) uses cable for informational purposes. Jerry Walters, town adm.; 919/556-2024.

Seattle (Wash.) City Light uses a cable system (municipally, rather than privately, owned) for communications and relay. Paul Croom; 206/625-3266.

PLUG INTO THE ENERGY\$TELLER® FREE THIRTY-DAY TRIAL

We want to help your Customer Service Representatives with the challenge of enhancing customer relations and developing positive responses to high bill complaints.

Utility experience has been that once a Customer Service Representative gets an Energy\$Teller, they don't want to give it up. The Energy\$Teller helps them explain to customers in dollars and cents what a true value electricity really is and how to use it more effectively.

We are so sure that you'll be pleased with the Energy\$Teller that we will send you a "THREE PAC" of Energy\$Tellers for a 30 day free trial. All that we ask is that you give them to Customer Service Representatives for their evaluation of this "tool."



Utilities have developed major, successful customer awareness programs based on the Energy\$Teller. The Energy\$Teller has been in these successful programs more than 4 years.

It is a tool that every Customer Service Representative needs. New developments incorporated in the Energy\$Teller now make it even easier to use — and more accurate. Call us order your "THREE PAC" now!

Energy\$Teller will not invoice you for 30 days. At that time, you can pay the invoice and keep the Energy\$Tellers or return them (undamaged) at no cost to you.

Energy Teller, Inc.
5050 Oakland
St. Louis, MO 63110

CALL TODAY
314/524-8211

PUBLIC POWER INDEX—1987

The index is arranged by author and subject.
Books reviewed are alphabetized by title.

AUTHORS

- American Society for Public Administration
Code of ethics for Public Power Officials. May-June, p. 46.
- Anderson, Karen
Customer and utility needs blend in New England. May-June, p. 28.
- Bergman, Michael K.
Fuel cell power plant III: APPA leading the way. May-June, p. 25.
- Bruneel, Larry
Innovation update: Losing sleep over line loss? Try DISTAL. Jan.-Feb., p. 66.
Innovation update: Electric vehicles on track. Jan.-Feb., p. 66.
Innovation update: Return to generation rewarded in Rock Falls. Jan.-Feb., p. 66.
E&O workshop to feature challenge of competition. Jan.-Feb., p. 45.
Innovation Update: Kent County, Mich., plans 17-MW solid-waste plant. Mar.-Apr., p. 66.
Innovation update: Texas sunshine becomes Texas power. Mar.-Apr., p. 66.
Innovation update: Forewarned is forearmed in economic development. Mar.-Apr., p. 66.
Learning least-cost planning. Mar.-Apr., p. 10.
Innovation update: Big gear for North Little Rock. May-June, p. 75.
Innovation update: Remote meters—quick results. May-June, p. 75.
Innovation update: Bills and books buddy up. May-June, p. 75.
Innovation update: Use new meter to catch thief. July-Aug., p. 71.
Innovation update: Safer Seattle substation. July-Aug., p. 71.
Innovation update: Device adds meter functions. July-Aug., p. 71.
Innovation update: Who put that dam light on? Sept.-Oct., p. 79.
Innovation update: Program pares power purchases. Sept.-Oct., p. 79.
Innovation update: SEP gets off the potty. Sept.-Oct., p. 79.
Three fossil plants on time, under budget. Nov.-Dec., p. 18.
- Cafruny, Madalyn
The medium brings the message. Nov.-Dec., p. 73.
- Childs, Jack
Cutting costs in North Carolina. Nov.-Dec., p. 76.
- Clark, Toni
Involving the public in public power. Mar.-Apr., p. 16.
- Cross, Susan H.
Responding to trauma. Sept.-Oct., p. 19.
- Dowden, Lisa G.
Living with the new hydro law. Jan.-Feb., p. 38.
- Everett, Peggy V.
Responding to trauma. Sept.-Oct., p. 19.
- Francis, Frances E.
Living with the new hydro law. Jan.-Feb., p. 38.
- Graves, H. B.
Are powerlines hazardous to health? (Probably not) July-Aug., p. 19.
- Handley, Lawrence M.
Fuel cell power plant-I: New generation option attractive. May-June, p. 20.
- Hobart, Larry
Something to think about: Assuring bulk power supply. Jan.-Feb., p. 6.
Something to think about: How'm I doin'? Mar.-Apr., p. 6.
Something to think about: A job you can't ignore. May-June, p. 6.
Something to think about: Superconductors' possible impact. July-Aug., p. 6.
Something to think about: C³ competition, cooperation and consumers. Sept.-Oct., p. 5.
Something to think about: Impressions can mislead. Nov.-Dec., p. 5.
- Kirkham, Richard
Share skills to avert takeovers. Mar.-Apr., p. 52.
- Kunka, Jill
It's a brand-new video. Mar.-Apr., p. 15.
Shape your community. Sept.-Oct., p. 10.
- LaBella, Jeanne Wickline
Redefining utilities' role. July-Aug., p. 39.
- Lewis, Dan
Learning least-cost planning. Mar.-Apr., p. 10.
Superconductor revolution: What it means for us. July-Aug., p. 15.
- Logie, Pat
Plans popping for public power week. July-Aug., p. 52.
- Lopes, Jane
Massachusetts utility at home with history. Mar.-Apr., p. 36.
- Mansueti, Larry
Innovation update: Kent County, Mich., plans 17-MW solid-waste plant. Mar.-Apr., p. 66.
Innovation update: Texas sunshine becomes Texas power. Mar.-Apr., p. 66.
Innovation update: Forewarned is forearmed in economic development. Mar.-Apr., p. 66.
- Marino, Andrew A.
Are powerlines hazardous to health? (Probably so) July-Aug., p. 18.
- Marple, Pamela
States step up action on nuclear, territorial and least-cost issues. Jan.-Feb., p. 10.
- O'Grady, John P.
A utility response to concerns about power line effects. July-Aug., p. 26.
- Purcell, Arthur H.
PCAS haunt utilities. Nov.-Dec., p. 10.
- Reinemer, Vic
The other side: This is what you told us. Jan.-Feb., p. 68.
The other side: 105 years of electric service. Mar.-Apr., p. 68.
The other side: Door-to-door competition. May-June, p. 76.
Cleveland public power expanding. May-June, p. 10.
The other side: Watch the state-house. July-Aug., p. 72.
The other side: Nuclear imperatives and public trust. Sept.-Oct., p. 80.
The other side: Other people's money. Nov.-Dec., p. 86.
- Roberts, Gordon
Congress knows us now. Jan.-Feb., p. 18.
- Robinson, Arthur L.
The superconductor revolution. July-Aug., p. 11.
- Rudolph, Richard
Setting right the history of public power. Sept.-Oct., p. 30.
- Sacks, Jennifer
Inside APPA: Territorial disputes task force meets. May-June, p. 74.
Inside APPA: L&R committee urges campaign finance reform. May-June, p. 74.
Inside APPA: Board of directors approves public power fuel cell demonstration. July-Aug., p. 70.
Inside APPA: Updated publications available. July-Aug., p. 70.
Inside APPA: Association awards DEED grants, scholarships. July-Aug., p. 70.
Inside APPA: Accounting, legal and communication meetings this fall. July-Aug., p. 70.
Inside APPA: APPA launches "year of the member" campaign. Sept.-Oct., p. 78.
Inside APPA: Hydroelectric licensing task force formed. Sept.-Oct., p. 78.
- Inside APPA: Powerpac continues to grow. Sept.-Oct., p. 78.
Inside APPA: APPA awarded software grant. Nov.-Dec., p. 85.
Inside APPA: Committee to study performance. Nov.-Dec., p. 85.
Inside APPA: Winter meeting in February. Nov.-Dec., p. 85.
- Schema, Douglas G.
The Salt River cavalry. July-Aug., p. 35.
- Serfass, Jeffrey
Fuel cell power plant II: Joint demonstrations are the next step. May-June, p. 23.
- Shear, Charles
Consumers cut costs at College Station, Texas. Mar.-Apr., p. 20.
- Sheekey, Kathleen
Restoring public trust. July-Aug., p. 28.
- Sliz, Deborah
New laws directly affect many consumer-owned electric systems. Jan.-Feb., p. 26.
- Smith, Enid
It's the Emerald PEOPLE's utility district. Sept.-Oct., p. 54.
- Stremel, Jerry
The vital signs are good. Mar.-Apr., p. 46.
Going to market. Sept.-Oct., p. 68.
- Swisher, Randy
States step up action on nuclear, territorial and least-cost issues. Jan.-Feb., p. 10.
- Tarbert, Jeffrey
Comparing governing boards. Sept.-Oct., p. 48.
- Woehle, Lori
Inside APPA: Board adopts association work plan for the new year. Jan.-Feb., p. 67.
Inside APPA: System planning committee established. Jan.-Feb., p. 67.
Inside APPA: Association winter meetings to be held March 2-5 in Washington, D.C. Jan.-Feb., p. 67.
Inside APPA: Association to host fuel cell meeting. Jan.-Feb., p. 67.
Inside APPA: Handel leaves APPA staff; Three others join. Jan.-Feb., p. 67.
Inside APPA: Ideology, not sound business sense, drives privatization, paper says. Mar.-Apr., p. 67.
Inside APPA: Waste-to-energy: A primer for utility decisionmakers. Mar.-Apr., p. 67.
The challenge of competition. May-June, p. 34.
How others respond. Sept.-Oct., p. 24.

SUBJECTS

ACID RAIN

New laws directly affect many consumer-owned electric systems, by Deborah Sliz. Jan.-Feb., p. 26.

ACCOUNTING AND FINANCE SECTION/WORKSHOP

Inside APPA: Accounting, legal and communication meetings this fall, by Jennifer Sacks. July-Aug., p. 70.

AMERICAN PUBLIC POWER ASSOCIATION

Inside APPA: Board adopts association work plan for the new year, by Lori Woehrlé. Jan.-Feb., p. 67.

Inside APPA: Ideology, not sound business sense, drives privatization, paper says, by Lori Woehrlé. Mar.-Apr., p. 67.

Inside APPA: Territorial disputes task force meets, by Jennifer Sacks. May-June, p. 74.

Inside APPA: Board of directors approves public power fuel cell demonstration, by Jennifer Sacks. July-Aug., p. 70.

Customers come first. [Interview with Joe Exum.] Sept.-Oct., p. 42.

Inside APPA: APPA launches "year-of-the-member" campaign, by Jennifer Sacks. Sept.-Oct., p. 78.

Inside APPA: Powerpac continues to grow, by Jennifer Sacks. Sept.-Oct., p. 76.

Inside APPA: APPA awarded software grant, by Jennifer Sacks. Nov.-Dec., p. 85.

ANNUAL CONFERENCE (APPA)

More to choose from at annual conference. Mar.-Apr., p. 54.

Redefining utilities' role, by Jeanne Wickline LaBella. July-Aug., p. 39.

ANNUAL REPORT

Annual report 1986-1987. May-June.

AUSTIN, TEXAS

Innovation update: Texas sunshine becomes Texas power, by Larry Bruneel. Mar.-Apr., p. 66.

AWARDS, APPA

APPA honors achievers. July-Aug., p. 42.

Energy innovators win awards. July-Aug., p. 48.

BONNEVILLE POWER ADMINISTRATION

50 years of power. Nov.-Dec., p. 22.

BUDGETING

Local systems budget \$5.17 billion for 1987 plant work. Jan.-Feb., p. 46.

BUTLER, MO.

The other side: 105 years of electric service, by Vic Reinemer. Mar.-Apr., p. 68.

CITIZEN ADVISORY COMMITTEES

Involving the public in public power, by Toni Clark. Mar.-Apr., p. 16.

CLEVELAND PUBLIC POWER, OHIO

Cleveland public power expanding, by Vic Reinemer. May-June, p. 10.

COAL

Three fossil plants on time, under budget, by Larry Bruneel. Nov.-Dec., p. 18.

COGENERATION

Something to think about: Impressions can mislead, by Larry Hobart. Nov.-Dec., p. 5.

COLORADO

Innovation update: Forewarned is forearmed in economic developments, by Larry Bruneel and Larry Mansueti. Mar.-Apr., p. 66.

COLLEGE STATION, TEXAS

Consumers cut costs at College Station, Texas, by Charles K. Shear. Mar.-Apr., p. 20.

COMMITTEES (APPA)

Inside APPA: System planning committee established, by Lori Woehrlé. Jan.-Feb., p. 67.

Inside APPA: Association winter meetings to be held March 2-5 in Washington, D.C., by Lori Woehrlé. Jan.-Feb., p. 67.

Inside APPA: L&R committee urges campaign finance reform, by Jennifer Sacks. May-June, p. 74.

Inside APPA: Hydroelectric licensing task force formed, by Jennifer Sacks. Sept.-Oct., p. 78.

Inside APPA: Committee to study performance, by Jennifer Sacks. Nov.-Dec., p. 85.

Inside APPA: Winter meetings in February, by Jennifer Sacks. Nov.-Dec., p. 85.

COMMUNITY DEVELOPMENT

Shape your community, by Jill Kunka. Sept.-Oct., p. 10.

COMPETITION

The other side: Door to door competition, by Vic Reinemer. May-June, p. 76.

Cleveland public power expanding, by Vic Reinemer. May-June, p. 10.

The challenge of competition, by Lori Woehrlé. May-June, p. 34.

Something to think about: C³: Competition, cooperation and consumers, by Larry Hobart. Sept.-Oct., p. 5.

COMPUTERS

Inside APPA: APPA awarded software grant, by Jennifer Sacks. Nov.-Dec., p. 85.

CONSTRUCTION

Local systems budget \$5.17 billion for 1987 plant work. Jan.-Feb., p. 46.

Three fossil plants on time, under budget, by Larry Bruneel. Nov.-Dec., p. 18.

CONSUMER PROGRAMS

Consumers cut costs at College Station, Texas, by Charles K. Shear. Mar.-Apr., p. 20.

Innovation update: Bills and books buddy up, by Larry Bruneel. May-June, p. 75.

Customer and utility needs blend in New England, by Karen Anderson. May-June, p. 28.

A utility response to concerns about power line effects, by John P. O'Grady. July-Aug., p. 26.

CONSUMERS

Something to think about: How'm I doin'?, by Larry Hobart. Mar.-Apr., p. 6.

Involving the public in public power, by Toni Clark. Mar.-Apr., p. 16.

CONTESTS

Here are the [photo contest] winners. Mar.-Apr., p. 24.

Seventy-four consumer-owned electric systems receive safety awards. May-June, p. 43.

COOPERATIVES

Inside APPA: Territorial disputes task force meets, by Jennifer Sacks. May-June, p. 74.

COSTS

Basic electric service costs less in public power cities. Jan.-Feb., p. 50.

Public power costs less. May-June, p. 50.

CUSTOMER SERVICE

Innovation update: Bills and books buddy up, by Larry Bruneel. May-June, p. 75.

CUSTOMER SERVICE AND COMMUNICATIONS SECTION/WORKSHOP

Inside APPA: Accounting, legal and communication meetings this fall, by Jennifer Sacks. July-Aug., p. 70.

DEED (DEMONSTRATION OF ENERGY EFFICIENCY DEVELOPMENTS)

Innovation update: Losing sleep over line loss? Try DISTANL, by Larry Bruneel. Jan.-Feb., p. 66.

Fuel cell power plant III: APPA leading the way, by Michael K. Bergman. May-June, p. 25.

Inside APPA: Board of directors approves public power fuel cell demonstration, by Jennifer Sacks. July-Aug., p. 70.

Inside APPA: Association awards DEED grants, scholarships, by Jennifer Sacks. July-Aug., p. 70.

Inside APPA: APPA awarded software grant, by Jennifer Sacks. Nov.-Dec., p. 85.

DIRECTORIES

Public power's annual directory. Jan.-Feb.

DISTRIBUTION

Innovation update: Losing sleep over line loss? Try DISTANL, by Larry Bruneel. Jan.-Feb., p. 66.

Cutting costs in North Carolina, by Jack Childs. Nov.-Dec., p. 76.

EDISON, THOMAS A.

Set right the history of public power, by Richard Rudolph. Sept.-Oct., p. 30.

ELECTRIC POWER RESEARCH INSTITUTE

Innovation update: Electric vehicles on track, by Larry Bruneel. Jan.-Feb., p. 66.

Fuel cell power plant II: John dem-

onstrations are the next step, by Jeffrey Serfass. May-June, p. 23.

EPRI increasing research on electromagnetic fields. July-Aug., p. 23.

ELECTRIC POWER SUPPLY AND DEMAND

Something to think about: Impressions can mislead, by Larry Hobart. Nov.-Dec., p. 5.

ELECTRIC UTILITY INDUSTRY

Something to think about: Superconductors' possible impact, by Larry Hobart. July-Aug., p. 6.

Redefining utilities role, by Jeanne Wickline LaBella. July-Aug., p. 39.

Something to think about: C³: Competition, cooperation and consumers, by Larry Hobart. Sept.-Oct., p. 5.

Something to think about: Impressions can mislead, by Larry Hobart. Nov.-Dec., p. 5.

ELECTRIC VEHICLES

Innovation update: Electric vehicles on track, by Larry Bruneel. Jan.-Feb., p. 66.

ELECTRICAL EQUIPMENT

Innovation update: SER gets off the potty, by Larry Bruneel. Sept.-Oct., p. 79.

ELECTRICITIES OF NORTH CAROLINA

Cutting costs in North Carolina, by Jack Childs. Nov.-Dec., p. 76.

ELECTRICITY

Set right the history of public power, by Richard Rudolph. Sept.-Oct., p. 30.

EMERALD (ORE) PUD

It's the Emerald PEOPLE'S utility district, by Enid Smith. Sept.-Oct., p. 54.

EMPLOYEE BENEFITS

Responding to trauma, by Peggy V. Everett and Susan H. Cross. Sept.-Oct., p. 19.

How others respond to trauma, by Lori Woehrlé. Sept.-Oct., p. 24.

ENERGY AUDITS

Customer and utility needs blend in New England, by Karen Anderson. May-June, p. 28.

ENERGY CONSERVATION

Learning least-cost planning, by Dan Lewis and Larry Bruneel. Mar.-Apr., p. 10.

Consumers cut costs at College Station, Texas, by Charles K. Shear. Mar.-Apr., p. 20.

Customer and utility needs blend in New England, by Karen Anderson. May-June, p. 28.

Shape your community, by Jill Kunka. Sept.-Oct., p. 10.

ENERGY INNOVATION

Public power innovation. Nov.-Dec., p. 28.

Inside APPA: APPA awarded software grant, by Jennifer Sacks. Nov.-Dec., p. 85.

ENERGY INNOVATOR AWARD (APPA)

Energy innovators win awards. July-Aug., p. 48.

ENERGY SERVICES EXCHANGE

It's a brand-new video, by Jill Kunka. Mar.-Apr., p. 15.

ENERGY SERVICES PLANNING

Learning least-cost planning, by Dan Lewis and Larry Bruneel. Mar.-Apr., p. 10.

It's a brand-new video, by Jill Kunka. Mar.-Apr., p. 15.

Something to think about: C³. Competition, cooperation and consumers, by Larry Hobart. Sept.-Oct., p. 5.

Inside APPA: APPA awarded software grant, by Jennifer Sacks. Nov.-Dec., p. 85.

ENGINEERING AND OPERATIONS WORKSHOP

E&O Workshop to feature challenge of competition, by Larry Bruneel. Jan.-Feb., p. 45.

The challenge of competition, by Lori Woehrl. May-June, p. 34. Customers come first. [Interview with Joe Exum]. Sept.-Oct., p. 42.

FEDERAL ENERGY REGULATORY COMMISSION

Living with the new hydro law, by Frances E. Francis and Lisa G. Dowden. Jan.-Feb., p. 38.

FEDERAL POWER MARKETING AGENCIES

Congress knows us by now, by Gordon Roberts. Jan.-Feb., p. 18.

New laws directly affect many consumer-owned electric systems, by Deborah Sliz. Jan.-Feb., p. 26.

Inside APPA: Ideology, not sound business sense, drives privatization, paper says, by Lori Woehrl. Mar.-Apr., p. 67.

Something to think about: A job you can't ignore, by Larry Hobart. May-June, p. 6.

FINANCING

New laws directly affect many consumer-owned electric systems, by Deborah Sliz. Jan.-Feb., p. 26.

Public power bond issues totaled \$21.4 billion in 1986. Mar.-Apr., p. 44.

Going to market, by Jerry Stremel. Sept.-Oct., p. 68.

FUEL CELLS

Inside APPA: Association to host fuel cell meeting. January 28-29, by Lori Woehrl. Jan.-Feb., p. 67.

Fuel cell meeting (photo). Mar.-Apr., p. 67.

Fuel cell power plant I: New generation option attractive, by Lawrence M. Handley. May-June, p. 20.

Fuel cell power plant II: Joint demonstrations are the next step, by Jeffrey Serfass. May-June, p. 20.

Fuel cell power plant III: APPA leading the way, by Michael K. Bergman. May-June, p. 25.

Inside APPA: Board of directors approves public power fuel cell demonstration, by Jennifer Sacks. July-Aug., p. 70.

GOVERNING BOARDS

Comparing governing boards, by Jeff Tarbert. Sept.-Oct., p. 48.

GUAM POWER AUTHORITY

Innovation update: Losing sleep over line loss? Try DISTANL, by Larry Bruneel. Jan.-Feb., p. 66.

HEALTH

Are power lines hazardous to health? Probably so, by Andrew A. Marino. July-Aug., p. 18.

Are power lines hazardous to health? Probably not, by H. B. Graves. July-Aug., p. 19.

EPRI increasing research on electromagnetic fields. July-Aug., p. 23.

A utility response to concerns about power line effects, by John P. O'Grady. July-Aug., p. 26.

Responding to trauma, by Peggy V. Everett and Susan H. Cross. Sept.-Oct., p. 19.

How others respond to trauma, by Lori Woehrl. Sept.-Oct., p. 24.

HISTORY

The other side: 105 years of electric service, by Vic Reinemer. Mar.-Apr., p. 68.

Set right the history of public power, by Richard Rudolph. Sept.-Oct., p. 30.

Bonneville Dam: 50 years of power. Nov.-Dec., p. 22.

HOOVER DAM

Innovation update: Who put that dam light on?, by Larry Bruneel. Sept.-Oct., p. 79.

HYDRO PROJECTS

Innovation update: Return to generation rewarded in Rock Falls, Larry Bruneel. Jan.-Feb., p. 66.

Innovation update: Big gear for North Little Rock, by Larry Bruneel. May-June, p. 75.

Innovation update: Who put that dam light on?, by Larry Bruneel. Sept.-Oct., p. 79.

Bonneville Dam: 50 years of power. Nov.-Dec., p. 22.

HYDROELECTRIC POWER-LICENSING

Congress knows us by now, by Gordon Roberts. Jan.-Feb., p. 18.

New laws directly affect many consumer-owned electric systems, by Deborah Sliz. Jan.-Feb., p. 26.

Living with the new hydro law, by Frances E. Francis and Lisa G. Dowden. Jan.-Feb., p. 38.

Inside APPA: Hydroelectric licensing task force formed, by Jennifer Sacks. Sept.-Oct., p. 78.

INDUSTRIAL DEVELOPMENT

Innovation update: Forewarned is forearmed in economic development, by Larry Bruneel and Larry Mansueti. Mar.-Apr., p. 66.

Shape your community, by Jill Kunka. Sept.-Oct., p. 10.

INNOVATION LIST**INSIDE APPA**

By Lori Woehrl. Board adopts association work plan for the new year. Jan.-Feb., p. 67.

System planning committee established. Jan.-Feb., p. 67.

Association winter meetings to be held March 2-5 in Washington,

D.C., Jan.-Feb., p. 67.

Association to host fuel cell meeting. Jan.-Feb., p. 67.

Handel leaves APPA staff; Three others join. Jan.-Feb., p. 67.

Ideology, not sound business sense, drives privatization, paper says. Mar.-Apr., p. 67.

Waste-to-Energy: A primer for utility decisionmakers. Mar.-Apr., p. 67.

INSIDE APPA

By Jennifer Sacks

Territorial disputes task force meets. May-June, p. 74.

L&R committee urges campaign finance reform. May-June, p. 74.

Board of Directors approves public power fuel cell demonstration. July-Aug., p. 70.

Updated publications available. July-Aug., p. 70.

Association awards DEED grants, scholarships. July-Aug., p. 70.

Accounting, legal and communication meetings this fall. July-Aug., p. 70.

APPA launches "Year of the Member" campaign. Sept.-Oct., p. 78.

Hydroelectric licensing task force formed. Sept.-Oct., p. 78.

PowerPAC continues to grow. Sept.-Oct., p. 78.

APPA awarded software grant. Nov.-Dec., p. 85.

Committee to study performance. Nov.-Dec., p. 85.

Winter meeting in February. Nov.-Dec., p. 85.

INVESTOR-OWNED UTILITIES

The other side: Door-to-door competition, by Vic Reinemer. May-June, p. 76.

The other side: Other people's money, by Vic Reinemer. Nov.-Dec., p. 86.

JOINT ACTION

Public power bond issues totaled \$21.4 billion in 1986. Mar.-Apr., p. 44.

What's the benefit in Hurricane, Utah? Mar.-Apr., p. 53.

Cutting costs in North Carolina, by Jack Childs. Nov.-Dec., p. 76.

KENT COUNTY, MICH.

Innovation update: Kent County, Mich., plans 17-MW solid-waste plant, by Larry Bruneel and Larry Mansueti. Mar.-Apr., p. 66.

LEGAL SEMINAR

Inside APPA: Accounting, legal and communication meetings this fall, by Jennifer Sacks. July-Aug., p. 70.

LEGISLATION

New laws directly affect many consumer-owned electric systems, by Deborah Sliz. Jan.-Feb., p. 26.

Something to think about: A job you can't ignore, by Larry Hobart. May-June, p. 6.

Inside APPA: L&R committee urges campaign finance reform, by Jennifer Sacks. May-June, p. 74.

Restoring public trust, by Kathleen

Sheekey. July-Aug., p. 28.

The other side: Other people's money, by Vic Reinemer. Nov.-Dec., p. 86.

LIGHTING

Innovation update: Who put that dam light on? by Larry Bruneel. Sept.-Oct., p. 79.

LOAD MANAGEMENT

Learning least-cost planning, by Dan Lewis and Larry Bruneel. Mar.-Apr., p. 10.

Consumers cut costs at College Station, Texas, by Charles K. Shear. Mar.-Apr., p. 20.

Innovation update: Remote meters—quick results, by Larry Bruneel. May-June, p. 75.

Customer and utility needs blend in New England, by Karen Anderson. May-June, p. 28.

Innovation update: Program pares power purchases, by Larry Bruneel. Sept.-Oct., p. 79.

LOBBYING

Congress knows us now, by Gordon Roberts. Jan.-Feb., p. 18.

Something to think about: A job you can't ignore, by Larry Hobart. May-June, p. 6.

Restoring public trust, by Kathleen Sheekey. July-Aug., p. 28.

MANAGEMENT

Code of ethics for public officials, by the American Society for Public Administration. May-June, p. 46.

Responding to trauma, by Peggy V. Everett and Susan H. Cross. Sept.-Oct., p. 19.

How others respond to trauma, by Lori Woehrl. Sept.-Oct., p. 24.

MARKETING

Shape your community, by Jill Kunka. Sept.-Oct., p. 10.

MEETINGS (APPA)

Inside APPA: Association winter meetings to be held March 2-5 in Washington, D.C., by Lori Woehrl. Jan.-Feb., p. 67.

Inside APPA: Association to host fuel cell meeting Jan. 28-29, by Lori Woehrl. Jan.-Feb., p. 67.

Fuel cell meeting (photo). Mar.-Apr., p. 67.

MEMBERSHIP

Inside APPA: APPA launches "Year of the Member" campaign, by Jennifer Sacks. Sept.-Oct., p. 78.

METER TAMPERING

Innovation update: Use new meter to catch thief, by Larry Bruneel. July-Aug., p. 71.

METERS

Innovation update: Remote meters—quick results, by Larry Bruneel. May-June, p. 75.

Innovation update: Device adds meter functions, by Larry Bruneel. July-Aug., p. 71.

MIDDLEBORO, MASS.

Massachusetts utility at home with history, by Jane Lopes. Mar.-Apr., p. 36.

MINNESOTA MUNICIPAL UTILITIES ASSOCIATION

Share skills to avert takeovers, by R. G. Kirkham. Mar.-Apr., p. 52.

MISSOURI JOINT MUNICIPAL ELECTRIC UTILITY COMMISSION

Innovation update: Remote meters—quick results, by Larry Bruneel. May-June, p. 75.

MUNICIPAL BONDS

New laws directly affect many consumer-owned electric systems, by Deborah Sliz. Jan.-Feb., p. 26.

Public power bond issues totaled \$21.4 billion in 1986. Mar.-Apr., p. 44.

Going to market, by Jerry Stremel. Sept.-Oct., p. 68.

MUNICIPALLY OWNED UTILITIES

Massachusetts utility at home with history, by Jane Lopes. Mar.-Apr., p. 36.

Share skills to avert takeovers, by R. G. Kirkham. Mar.-Apr., p. 52.

What's the benefit in Hurricane, Utah? Mar.-Apr., p. 53.

The other side: Door-to-door competition, by Vic Reinemer. May-June, p. 76.

Inside APPA: Territorial disputes task force meets, by Jennifer Sacks. May-June, p. 74.

NEW MUNICIPALS

The other side: Watch the state-house, by Vic Reinemer. July-Aug., p. 72.

NORTH LITTLE ROCK, ARK.

Innovation update: Big gear for North Little Rock, by Larry Bruneel. May-June, p. 75.

NORTH YORK HYDRO, ONT.

Innovation update: Bills and books buddy up, by Larry Bruneel. May-June, p. 75.

NUCLEAR POWER

The other side: Nuclear imperatives and public trust, by Vic Reinemer. Sept.-Oct., p. 80.

NUCLEAR WASTE

The other side: Nuclear imperatives and public trust, by Vic Reinemer. Sept.-Oct., p. 80.

ONTARIO HYDRO

A utility response to concerns about power line effects, by John P. O'Grady. July-Aug., p. 26.

PCBs

PCBs haunt utilities, by Arthur H. Purcell. Nov.-Dec., p. 10.

PERSONNEL

Code of ethics for public officials, by the American Society for Public Administration. May-June, p. 46.

Responding to trauma, by Peggy V. Everett and Susan H. Cross. Sept.-Oct., p. 19.

How others respond to trauma, by Lori Woehrl. Sept.-Oct., p. 24.

PHOTOGRAPHS

Here are the [photo contest] winners. Mar.-Apr., p. 24.

PHOTOVOLTAICS

Innovation update: Texas sunshine becomes Texas power, by Larry Bruneel. Mar.-Apr., p. 66.

PLATTE RIVER POWER AUTHORITY

The vital signs are good, by Jerry Stremel. Mar.-Apr., p. 46.

Going to market, by Jerry Stremel. Sept.-Oct., p. 68.

POLITICAL ACTION COMMITTEES

Restoring public trust, by Kathleen Sheekey. July-Aug., p. 28.

Inside APPA: Powerpac continues to grow, by Jennifer Sacks. Sept.-Oct., p. 78.

PORT COLBOURNE, ONT.

Innovation update: Use new meter to catch thief, by Larry Bruneel. July-Aug., p. 71.

POWER PLANTS

Local systems budget \$5.17 billion for 1987 plant work. Jan.-Feb., p. 46.

The vital signs are good, by Jerry Stremel. Mar.-Apr., p. 46.

Fuel cell power plant I: New generation option attractive, by Lawrence M. Handley. May-June, p. 20.

Fuel cell power plant II: Joint demonstrations are the next step, by Jeffrey Serfass. May-June, p. 23.

Fuel cell power plant III: APPA leading the way, by Michael K. Bergman. May-June, p. 25.

Innovation update: Safer Seattle substation, by Larry Bruneel. July-Aug., p. 71.

Three fossil plants on time, under budget, by Larry Bruneel. Nov.-Dec., p. 18.

POWER SUPPLY

Something to think about: Assuring bulk power supply, by Larry Hobart. Jan.-Feb., p. 6.

PREFERENCE

Congress knows us now, by Gordon Roberts. Jan.-Feb., p. 18.

Living with the new hydro law, by Frances E. Francis and Lisa G. Dowden. Jan.-Feb., p. 38.

Plans popping for public power week, by Pat Logie. July-Aug., p. 52.

PUBLIC POWER

Congress knows us now, by Gordon Roberts. Jan.-Feb., p. 18.

Plans popping for public power week, by Pat Logie. July-Aug., p. 52.

Something to think about: C³: Competition, cooperation and consumers, by Larry Hobart. Sept.-Oct., p. 5.

PUBLIC POWER BENEFITS

Basic electric service costs less in public power cities. Jan.-Feb., p. 50.

Something to think about: How'm I doin'? by Larry Hobart. Mar.-Apr., p. 6.

Public power costs less. May-June, p. 50.

Public power contributes more. July-Aug., p. 56.

Shape your community, by Jill Kunka. Sept.-Oct., p. 10.

PUBLIC POWER MAGAZINE

The other side: This is what you told us, by Vic Reinemer. Jan.-Feb., p. 68.

PUBLIC RELATIONS

Something to think about: How'm I doin'? by Larry Hobart. Mar.-Apr., p. 6.

Consumers cut costs at College

Station, Texas, by Charles K. Shear. Mar.-Apr., p. 20.

Involving the public in public power, by Toni Clark. Mar.-Apr., p. 16.

Code of ethics for public officials, by the American Society for Public Administration. May-June, p. 46.

Plans popping for public power week, by Pat Logie. July-Aug., p. 52.

It's the Emerald PEOPLE'S Utility District, by Enid Smith. Sept.-Oct., p. 54.

The medium brings the message, by Madalyn Cafruny. Nov.-Dec., p. 73.

PUBLIC UTILITY COMMISSIONS

States step up action on nuclear, territorial and least-cost issues, by Randy Swisher and Pamela Marple. Jan.-Feb., p. 10.

PUBLIC UTILITY REGULATORY POLICIES ACT

Living with the new hydro law, by Frances E. Francis and Lisa G. Dowden. Jan.-Feb., p. 38.

Something to think about: Impressions can mislead, by Larry Hobart. Nov.-Dec., p. 5.

PUBLICATIONS (APPA)

Inside APPA: Waste-to-Energy: A primer for utility decisionmakers, by Lori Woehrl. Mar.-Apr., p. 67.

Publications catalog. Mar.-Apr.

Inside APPA: Updated publications available, by Jennifer Sacks. July-Aug., p. 70.

RATES (ELECTRIC)

Basic electric service costs less in public power cities. Jan.-Feb., p. 50.

Public power costs less. May-June, p. 50.

Shape your community, by Jill Kunka. Sept.-Oct., p. 10.

REGULATION

States step up action on nuclear, territorial and least-cost issues, by Randy Swisher and Pamela Marple. Jan.-Feb., p. 10.

ROCK FALLS, ILL.

Innovation update: Return to generation rewarded in Rock Falls, by Larry Bruneel. Jan.-Feb., p. 66.

RESEARCH

The superconductor revolution, by Arthur L. Robinson. July-Aug., p. 11.

SACRAMENTO, CAL.

Innovation update: Device adds meter functions, by Larry Bruneel. July-Aug., p. 71.

SAFETY

Seventy four consumer-owned electric systems receive safety awards. May-June, p. 43.

SALT RIVER PROJECT

The Salt River Cavalry, by Douglas G. Schema. July-Aug., p. 35.

Innovation update: sap gets off the potty, by Larry Bruneel. Sept.-Oct., p. 79.

SCADA

Innovation update: Return to generation rewarded in Rock Falls,

by Larry Bruneel. Jan.-Feb., p. 66.

SEATTLE CITY LIGHT (WASH.)

Innovation update: Safer Seattle substation, by Larry Bruneel. July-Aug., p. 71.

SELLOUTS

Share skills to avert takeovers, by R. G. Kirkham. Mar.-Apr., p. 52.

The other side: Watch the state-house, by Vic Reinemer. July-Aug., p. 72.

SERVICE AREAS

States step up action on nuclear, territorial and least-cost issues, by Randy Swisher and Pamela Marple. Jan.-Feb., p. 10.

The other side: Door-to-door competition, by Vic Reinemer. May-June, p. 76.

Cleveland Public Power expanding, by Vic Reinemer. May-June, p. 10.

Inside APPA: Territorial disputes task force meets, by Jennifer Sacks. May-June, p. 74.

SMITH, VIRGINIA

I'm ready to take them on. Jan.-Feb., p. 23.

SOLID WASTE AS FUEL

Innovation update: Kent County, Mich., plans 17-MW solid-waste plant, by Larry Bruneel and Larry Mansueti. Mar.-Apr., p. 66.

Inside APPA: Waste-to-energy: A primer for utility decisionmakers, by Lori Woehrl. Mar.-Apr., p. 67.

STATE LEGISLATION

States step up action on nuclear, territorial and least-cost issues, by Randy Swisher and Pamela Marple. Jan.-Feb., p. 10.

The other side: Watch the state-house, by Vic Reinemer. July-Aug., p. 72.

STATISTICS

Local systems budget \$5.17 billion for 1987 plant work. Jan.-Feb., p. 46.

Public power bond issues totaled \$21.4 billion in 1986. Mar.-Apr., p. 44.

Public power costs less. May-June, p. 50.

Public power contributes more. July-Aug., p. 56.

Comparing governing boards, by Jeff Tarbert. Sept.-Oct., p. 48.

STRATEGIC PLANNING FOR UTILITIES

Something to think about: Assuring bulk power supply, by Larry Hobart. Jan.-Feb., p. 6.

Learning least-cost planning, by Dan Lewis and Larry Bruneel. Mar.-Apr., p. 10.

Cutting costs in North Carolina, by Jack Childs. Nov.-Dec., p. 76.

SUPERCONDUCTIVITY

Something to think about: Superconductors' possible impact, by Larry Hobart. July-Aug., p. 6.

The superconductor revolution, by Arthur L. Robinson. July-Aug., p. 11.

The superconductor revolution: What it means for us, by Dan

INDEX—SUBJECTS (continued)

Lewis, July-Aug., p. 15.

SURVEYS
The other side: This is what you told us, by Vic Reinemer. Jan.-Feb., p. 68.

TAXES
New laws directly affect many consumer-owned electric systems, by Deborah Sliz. Jan.-Feb., p. 26.
Public power contributes more. July-Aug., p. 56.
Comparing governing boards, by Jeff Tarbert. Sept.-Oct., p. 48.
The other side: Other people's money, by Vic Reinemer. Nov.-Dec., p. 86.

TOXIC SUBSTANCES
PCBs haunt utilities, by Arthur H. Purcell. Nov.-Dec., p. 10.

TRANSMISSION
Something to think about: Assuring bulk power supply, by Larry Hobar. Jan.-Feb., p. 6.

TRANSMISSION LINES

Are power lines hazardous to health? Probably so, by Andrew A. Marino. July-Aug., p. 18.
Are power lines hazardous to health? Probably not, by H. B. Graves. July-Aug., p. 19.
The Salt River Cavalry, by Douglas G. Schema. July-Aug., p. 35.
EPRI increasing research on electromagnetic fields. July-Aug., p. 23.
A utility response to concerns about power line effects, by John P. O'Grady. July-Aug., p. 26.

UTAH ASSOCIATED MUNICIPAL POWER SYSTEMS
What's the benefit in Hurricane? Mar.-Apr., p. 53.

WESTERN AREA POWER ADMINISTRATION
Inside APPA: Waste-to-energy: A primer for utility decisionmakers, by Lori Woehrl. Mar.-Apr., p. 67.

BOOK REVIEWS

BPA AND THE STRUGGLE FOR POWER AT COST, by Gene Tollefson. July-Aug., p. 68.

BEYOND OIL: THE THREAT TO FOOD AND FUEL IN THE COMING DECADES, by John Gever, Robert Kaufmann, David Skole and Charles Vorosmarty. Sept.-Oct., p. 75.

CAPITAL FACILITIES PLANNING: A TACTICAL APPROACH, by Joseph H. Brevard. May-June, p. 72.

DARKNESS TO DAYLIGHT: AN ORAL HISTORY OF RURAL ELECTRIFICATION IN PENNSYLVANIA AND NEW JERSEY, by Mary Ellen Ro-

meo. Jan.-Feb., p. 65.

ENERGY: CRISIS OR OPPORTUNITY? by Diana Schumacher. May-June, p. 72.

ENERGY EFFICIENCY: PERSPECTIVES ON INDIVIDUAL BEHAVIOR, edited by Willett Kempton and Max Neiman. Mar.-Apr., p. 65.

THE MIGHTIEST OF THEM ALL: MEMORIES OF GRAND COULEE DAM, by L. Vaughn Down. Nov.-Dec., p. 84.

WPPSS: WHO IS TO BLAME FOR THE WPPSS DISASTER?, by James Leigland and Robert Lamb. May-June, p. 72. ☀

**Dependable
Sturdy and
Very Fast**



**TRENWA 10 foot SECTIONS
BUILD BIG TRENCH JOBS FAST**

Control Trenches

TRENWA precast trenches have been used for well over 20 years by the electrical utility industry for distributing control wiring in all types of substations. Standards are 10", 20", 30", and 40" wide with a choice of sidewall depths: 10", 16", 24", and 32". Radius corners and lintels provide safe entry through tees and 90 degree ells.

Power Trenches

By the simple addition of steel ventilators and cable support blocks, TRENWA trenches serve as a power runway with free-air cable ratings. Compare this concept to the considerably reduced ampacities now permitted by the National Electric Code for cables in ducts.

Write for new brochure describing high voltage cable use in trenches.

TRENWA, INC.

1419 Alexandria Pike, Ft. Thomas, Ky 41075
Telephone (606) 781-0831
FAX 606-781-1085

From 10 locations in the U.S. and Canada

Local Systems Budget \$5.7 Billion for 1988 Plant Work

THE NATION'S LOCAL publicly owned electric utilities are budgeting \$5.77 billion for new plant additions and improvements in 1988 — an increase of 12.4 percent from the \$5.13 billion they reported spending last year.

Total transmission and distribution spending, including substations, conservation and load management, is estimated to increase 21.9 percent over 1987. Total spending for generation is estimated to increase 3.7 percent in 1988.

A year ago, in the APPA statistics department's annual survey of spending plans, local public power systems indicated they expected to spend about \$5.17 billion. The decrease between projected and actual 1987 expenditures is 0.70 percent.

The public power spending figures are for municipal electric utilities and other local publicly owned systems and do not include federal power agencies, rural electric cooperatives or private power companies.

The annual survey of spending plans includes reports from hundreds of municipal and other local publicly owned electric utilities, estimated to represent 70 percent of the total local public power segment of the electric utility industry on the basis of number of customers served. The reports have been projected to cover all local publicly owned systems. ☀

LOCAL PUBLIC POWER SYSTEM SPENDING, 1987-88

	1988 Projected	1987 Actual	1987 Projected	1987-88 % Change
Distribution				
Overhead below 33kv	\$471,471,170	\$436,574,840	\$404,878,444	8.0
Underground below 33kv	379,018,770	361,961,860	311,410,260	4.7
Total distribution	850,489,940	798,536,700	716,288,704	6.5
Transmission				
Overhead above 33kv	1,155,017,740	580,570,860	1,141,714,665	98.9
Underground above 33kv	50,518,680	39,460,400	29,169,421	28.0
Total transmission	1,205,536,420	620,031,260	1,170,884,086	94.4
Conservation & Load Management				
Substations	59,783,580	299,471,760	22,595,340	-80.0
Other T&D	538,345,070	452,293,560	407,632,521	19.0
Total T&D	331,621,920	279,335,380	201,513,670	18.7
Generation				
Steam: Coal	1,233,348,540	870,788,330	1,131,940,007	41.6
Oil	83,594,480	71,313,180	47,230,152	17.2
Gas	16,930,350	22,066,190	9,371,485	-23.3
Nuclear	860,517,810	1,356,850,880	1,158,901,320	-36.6
Biomass	43,992,830	38,621,230	4,266,000	13.9
Total	2,238,384,010	2,359,639,810	2,350,858,964	-5.1
Engine: Oil-fired	2,737,140	10,508,030	10,978,524	-74.0
Gas-fired	—	143,470	379,000	—
Dual-fired	3,133,550	24,029,740	14,225,644	-87.0
Gas Turbine	23,211,720	31,545,940	18,761,830	-26.4
Combined Cycle	61,068,540	23,926,150	98,985,714	155.2
Hydro	288,992,690	131,900,400	119,120,785	119.1
Geothermal	10,889,770	10,451,220	5,429,500	4.2
Cogeneration	33,279,770	2,731,710	5,653,000	1,118.3
Active Solar	2,253,370	32,860	1,302,000	6,757.5
Other	120,613,710	90,037,310	26,394,428	34.0
Total Generation	2,784,564,270	2,684,946,640	2,622,089,398	3.7
GRAND TOTAL	5,770,341,200	5,134,615,300	5,171,003,710	12.4

Local Public Systems' Plant Additions and Improvements

Generation

\$ millions
4000

- Nuclear
- Hydro
- ▨ Fossil
- Geothermal
- ▨ Other
includes biomass,
cogeneration and solar.

3500

3000

2500

2000

1500

1000

500

1986 projected

1987 actual

1987 projected

Distribution below 33kv

- Overhead
- ▨ Underground

\$ millions

900

600

300

0

1986 projected

1987 actual

1987 projected

Transmission above 33kv

- Overhead
- ▨ Underground

\$ millions

1200

900

600

300

0

1986 projected

1987 actual

1987 projected

Conservation and Load Management, Substations and Other T&D

- Conservation and Load Management
- ▨ Other T&D
- Substations

\$ millions

900

600

300

0

1986 projected

1987 actual

1987 projected

NOTE

ONLY THE FOLLOWING PAGES OF THIS

PUBLICATION HAVE BEEN FILMED

Cov. 1, pgs. 1, 2, 47

A2625-1-
3/21/88

MARCH-APRIL 1988

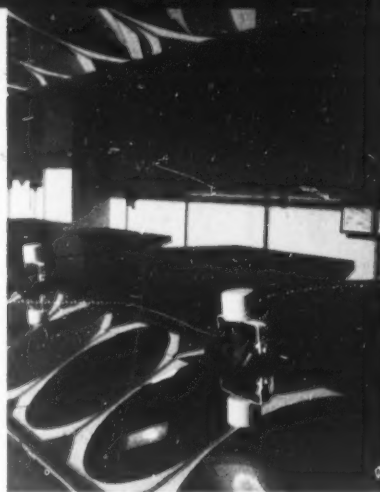
publicpower

1

22 2 AD 4
Congressional Info. Service
Sri
4520 East-West Highway
Bethesda MD 20814



COVER: The summer sun is just rising over a Memphis (Tenn.) Gas, Light and Water Division transmission line as it carries power produced by the Tennessee Valley Authority. This shot won Michael Stevenson, the division's media producer, third place among larger utilities in PUBLIC POWER's annual photo contest. For other winners, including Stevenson's second-place photo, see page 42.



"Light pipes" distribute concentrated sunshine in a Toronto, Ontario, office building. Such daylighting sharply reduces commercial peaks. See page 16.



Environmental managers for utilities need to keep ahead of Environmental Protection Agency enforcers by preventing and controlling contamination. See page 12.

March-April 1988
Volume 46, Number 2

publicpower

COLUMNS

- 6 Something to Think About**
by *Larry Hobart*
APPA winter policy meeting identifies key legislative concerns.
- 60 The Other Side**
by *Vic Reinemer*
You can help get PUBLIC POWER to the audiences it will benefit.

MANAGEMENT

- 11 Role Changing for Utility Environmental Managers**
by *Sandra J. Strelbel, John M. McNurney and Rena Steinzor*
The challenge is to structure priorities to achieve compliance.
- 31 Moving Up To Supervisor**
by *L. Michael Tompkins*
Wean yourself from old tasks and relationships, and ask questions.

MONEY

- 47 Public Power Bond Issues Totalled \$11 Billion in '87**
The decline generally tracks the entire tax-exempt market, following increases in '85.

TECHNOLOGY

- 16 Daylighting Cuts Commercial Peaks**
by *Jacquie Cochran*
New technologies carry sunlight inside; old technologies are much improved.
- 28 Come & Grow with E&O**
by *Dan Lewis*
Working on a committee of APPA's Engineering and Operations Section is a great way to keep up to date.

- 59 Innovation Update**
by *Larry Bruneel*
Taunton, Mass., lightens lighting load; Tacoma, Wash., to convert refuse; Santee Cooper's supplier close to home.

GOVERNMENT

- 22 States Set New Rules for Municipals in 1987**
by *Randy Swisher and Vic Reinemer*
Competitive bidding for generation picks up; least-cost planning, service areas, at issue.

SAFETY

- 36 Incentives Improve Safety**
by *Sharon D. Coffman*
Picnics, prizes and posters helped cut lost-time injuries by 83 percent.
- 39 Watertown Does It Safely**
by *Bill Wagner*
Safety training for new employees begins immediately.
- 40 Rodeo Time in Kansas City**
Lineworkers compete in 10 tasks while judged on speed, safety and proper handling of equipment.

APPA

- 42 Powerful Photos Win Contest**
- 58 Inside APPA**
Committee urges return of excess taxes collected by private utilities; Florida leads membership contest; Winfough retires.

DEPARTMENTS

- 56 Meetings**
57 APPA Papers
57 Ad Index

publicpower

Editorial and advertising offices:
2301 M Street N.W.
Washington, D.C. 20037
(202) 775-8300 (all departments)

PUBLIC POWER, issued bimonthly, is the official publication of the American Public Power Association. Opinions expressed in signed articles are not necessarily APPA policies. For permission to reprint articles, write or call the publisher.

Editor and publisher
Vic Reinemer
Managing editor
Lori Woehrle
Secretary/directory assistant
Margaret Winfough

Advertising manager
W.E. (Trez) Lee
Assistant advertising manager
Peggy Douglas
Circulation manager
Margaret Winfough
Classified advertising manager
Julie Parsley

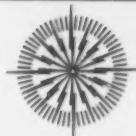
Staff contributors
Ralph Allen
Karen Anderson
Michael K. Bergman
Larry Bruneel
Madalyn Cafruny
Toni Clark
Jacquie Cochran
Paul Fry
Cindy Gaskill
Anne Marie Gibbons
Ruth Gonze
Larry Hobart
Marty Kanner
John Kelly
Jill Kunka
Jeanne Wickline LaBella
Dan Lewis
Pat Logie
Lawrence Mansueti
Nancy Mooney
Debbie Nuttall
Eileen Peerless
Alan H. Richardson
Gordon Roberts
Jennifer Sacks
Deborah Sliz
Randy Swisher
Jeff Tarbert

Consulting designer
Leckie/Lehmann

Subscription rate: \$35 per year, single copy \$5; January-February Directory issue: \$40 (\$20 to APPA members).
Second-class circulation postage paid at Washington, D.C.; USPS-449-420



VBPA



AMERICAN PUBLIC POWER ASSOCIATION

2301 M St. N.W., Washington, D.C. 20037 (202) 775-8300

The American Public Power Association (APPA) is a national service organization representing more than 1,750 local publicly owned electric utilities throughout the country.

OFFICERS 1987-88

JOE EXUM, *president*
WALTER A. CANNEY, *president-elect*
WILLIAM C. MESCHER, *vice-president*
C.M. PERKINS, *treasurer*
LARRY HOBART, *executive director*

DIRECTORS

JAMES A. BAUER, *general manager*, Piedmont Municipal Power Agency, Greer, S.C.
JOSEPH BLAIN†, *manager*, Municipal Lighting Plant, Taunton, Mass.
RONALD W. BOLES, *board chairman*, Huntsville Utilities, Huntsville, Ala.
WALTER A. CANNEY, *administrator*, Lincoln Electric System, Lincoln, Neb.
BILL D. CARNAHAN†, *public utilities director*, Riverside, Cal.
DON COLLETTE, *general manager*, McMinnville Electric System, McMinnville, Tenn.
GERALD COPP, *manager*, Public Utility District No. 1 of Chelan County, Wenatchee, Wash.
E. LEON DAGGETT, *director of utilities*, Hamilton, Ohio
MOLLY DARWIN, *councilmember*, Morganton, N.C.
R. HARRY DAWSON, *general manager*, Oklahoma Municipal Power Authority, Edmond, Okla.
DWIGHT DAY¹, *board member*, Utah Associated Municipal Power Systems, Salt Lake City, Utah
JOE EXUM, *general manager*, Jackson Utility Division, Jackson, Tenn.
ERNEST GEDDES, *general manager*, Turlock Irrigation District, Turlock, Cal.
GILBERT E. HANSON JR., *general manager*, Kansas Municipal Energy Agency, Mission, Kan.
RANDALL W. HARDY†, *superintendent*, Seattle City Light, Seattle, Wash.
RICHARD HORKINS, *chairman*, Toronto Hydro Electric System, Toronto, Ontario

EDWIN C. HOSKINS, *general manager*, Knoxville Utilities Board, Knoxville, Tenn.
EARL LAMAACK, *board of directors*, Missouri Basin Municipal Power Agency, Alexandria, Minn.
STEVE LOVELAND, *Springfield Utility Board*, Springfield, Ore.
ROYCE LYLES, *managing director*, Jacksonville Electric Authority, Jacksonville, Fla.
CAROLYN S. MCNEIL†², *general manager*, Utah Associated Municipal Power Systems, Sandy, Utah
WILLIAM C. MESCHER, *president*, Santee Cooper, Moncks Corner, S.C.
TIM MORAWSKI, *general manager*, Board of Public Works, Holland, Mich.
BOB NELSON†, *utilities director*, Denton Electric Light & Power, Denton, Texas
NORMAN NICHOLS, *assistant general manager*, Department of Water & Power, Los Angeles, Cal.
REECE D. NIELSEN, *chairman, board of directors*, Intermountain Power Agency, Hyrum, Utah
PAUL W. OSLER, *executive director*, Indiana Municipal Electric Association, Carmel, Ind.
DAVE PENN, *general manager*, Wisconsin Public Power Inc. System, Sun Prairie, Wis.
C.M. PERKINS, *assistant general manager/financial services*, Salt River Project, Phoenix, Ariz.
CHARLES F. ROSSOLI, *chief engineer/assistant general manager*, Department of Public Utilities, Norwich, Conn.
ROBERT E. ROUNDTREE†, *general manager*, City Utilities, Springfield, Mo.
DON E. SCHAUFELBERGER, *president and chief executive officer*, Nebraska Public Power District, Columbus, Neb.
E.C. SHREVE JR., *executive vice president*, Florida Municipal Utilities Association, Tallahassee, Fla.
DONALD L. STOKLEY, *general manager*, Municipal Electric Authority of Georgia, Atlanta, Ga.
WILLIAM G. TOBIN, *manager*, Rock Rapids Utilities, Rock Rapids, Iowa
ROBERT VAISEY, *general manager*, Fairport Municipal Commission, Fairport, N.Y.

† Executive Committee member

¹ Represents Policy Boards Advisory Council

² Represents Advisory Committee

Public Power Bond Issues Totalled \$11 Billion in '87

LOCAL PUBLICLY OWNED ELECTRIC utilities issued \$11 billion worth of electric revenue bonds in 1987. This was about half the \$21.4 billion issued in 1986 and the record \$23.2 billion sold in 1985, and slightly more than the \$10.2 billion sold in 1984.

All tax-exempt revenue bond sales, according to preliminary calculations, increased last year by 20 percent, compared with 1986, to a total of \$121.5 billion.

Public power revenue bonds amounted to 9 percent of all tax-exempt bonds sold in 1987, compared with 18.7 percent in 1986 and 21 percent in 1985, according to the annual Shearson Lehman Brothers compilation of tax-exempt bonds. Data came from THE BOND BUYER and Securities Data Co.

The decline in public power financing last year generally tracks the same course as that of the entire tax-exempt market following the increases in 1985.

New-issue tax-exempt bond volume rose from \$101.88 billion in 1984 to \$203.95 billion in 1985, reflecting the rush to market of issuers trying to beat the anticipated enactment of proposed restrictions on tax-exempt financing. This phenomenon continued through much of 1986 prior to the passage of the Tax Reform Act of 1986.

Total new issue volume in 1986, while down 30 percent from the 1985 level, still finished at a strong \$142.54 billion. The writing was clearly on the wall, however, as the December 1986 volume was \$16.54 billion compared to the \$54.44 billion of December 1985. Total new issue tax-exempt volume of \$93.95 billion in 1987 was down an additional 34 percent from the 1986 level. The combination of financings done in anticipation of adverse legislative changes, and the bite

Total Bonds Issued by Joint-Action Public Power Systems

Issuer	1975-1987	Total (000)
Alabama Municipal Electric Authority		\$139,000
Connecticut Municipal Electric Energy Cooperative		217,210
Florida Municipal Power Agency		848,255
Heartland Consumers Power District (SD)		360,640
Indiana Municipal Power Agency		336,950
Intermountain Power Agency (Utah)		12,026,926
Kansas Municipal Energy Agency		35,589
Louisiana Energy & Power Authority		240,745
Massachusetts Municipal Electric System		26,100
Massachusetts Municipal Wholesale Electric Co.		1,665,230
Michigan Public Power Agency		1,045,150
Michigan South Central Power Agency		187,530
Mississippi Municipal Energy Agency		3,300
M-S-R Public Power Agency (Cal.)		1,208,805
Municipal Electric Authority of Georgia		5,158,283
Municipal Energy Agency of Nebraska		41,045
North Carolina Municipal Power Agency No. 1		3,633,410
North Carolina Eastern Municipal Power Agency		5,018,450
Northern California Power Agency		3,592,185
Northern Municipal Power Agency (Minn.)		487,650
Oklahoma Municipal Power Authority		415,815
Piedmont Municipal Power Agency (S.C.)		2,474,020
Platte River Power Authority (Colo.)		1,455,555
Sam Rayburn Municipal Power Agency (Texas)		499,085
City of Sikeston, Mo.		250,000
Southern California Public Power Authority		4,885,550
Southern Minnesota Municipal Power Agency		1,070,165
Texas Municipal Power Agency		2,495,860
United Minnesota Municipal Power Agency		64,500
Utah Associated Municipal Power Systems		184,543
Utah Municipal Power Agency		46,200
Vermont Public Power Supply System		96,085
Washington Public Power Supply System		8,120,000
Western Minnesota Municipal Power Agency		702,790
Wyoming Municipal Power Agency		21,540
13-Year Total		\$59,054,161

of the new restrictions themselves, produced this dramatic contraction. The December 1987 volume of \$5.61 billion, for example, was just over 10 percent of the volume during the same month of the artificial boom year of 1985.

Last year 14 joint-action agencies accounted for 51 percent—\$5.6 billion—of the \$11 billion public power bond total, as compared with 44 percent in 1986.

As in 1986, the public power agency that issued the largest amount of bonds, \$1.25 billion, was Intermountain Power Agency in Utah. One other joint-action

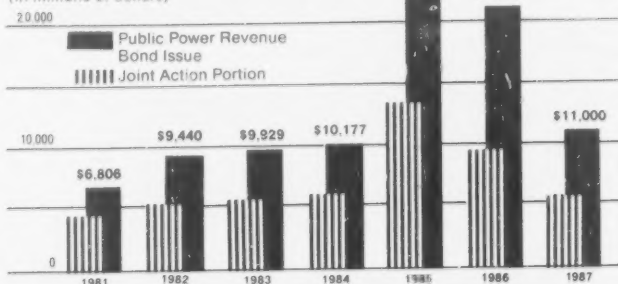
agency, the North Carolina Eastern Municipal Power Agency, issued more than \$1 billion in bonds last year.

The 13-year total of electric bonds issued by 35 joint-action agencies is \$59.1 billion, a 9.9 percent increase in one year over the amount issued during the previous 12 years.

The total of 182 public power bond issues last year (104 less than in 1986) included 64 in the first quarter, 46 in the second, 42 in the third and 30 in the fourth quarter. ☼

PUBLIC POWER REVENUE BOND ISSUES

(in millions of dollars)



A2625-1
5/18/88

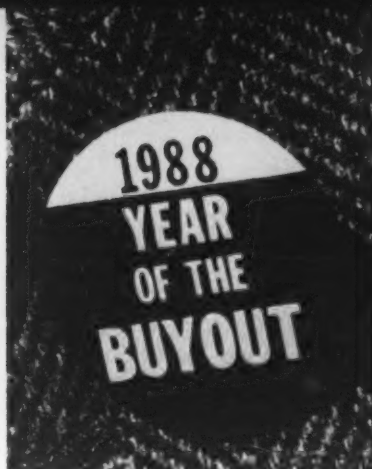
publicpower

MAY-JUNE 1988

1

22 2 AD 4
Congressional Info. Service
Sri
4520 East-West Highway
Bethesda MD 20814

COVER: The Lansing (Mich.) Board of Water & Light's landmark 80-MW, coal-fired Ottawa plant, operating since 1940, won numerous design awards and still attracts photographers. This shows the skylight over the front door. © Kim Kauffman, 1987



From New Orleans to Okoboji, public power is on a roll. See page 10.



Seattle, Wash., will host APPA's annual conference June 27-29. See page 39.

May-June 1988
Volume 46, Number 3

publicpower

COLUMNS

- 6 Something to Think About**
by *Larry Hobart*
The Los Angeles mission statement is pertinent to all municipals.

- 68 The Other Side**
by *Vic Reinemer*
The editor makes a few observations before retirement.

GOVERNMENT

- 26 Put Public Power on the Presidential Agenda**
by *Marge Harrison*
The service and cost record of municipal electric systems refutes disillusionment with government.

MANAGEMENT

- 28 Strategic Policy Planning for Publicly Owned Utilities**
by *Kenneth J. Mellor*
Different competition, technology require us to rethink plans.

COMPETITION

- 10 Public Power's Progress**
by *Lori A. Woehrl*
Movement toward more municipal electric ownership accelerating.

- 18 Clyde's Coming Back**
by *Deborah Nuttall*
Ohio city returning to public power after 23 years with Toledo Edison.

- 23 What to Do When an IOU Wants You**
by *Charles F. Revell*
Alexandria, La. studied its utilities' value, and kept them.

SAFETY

- 49 59 Systems Commended for Safety**

ELECTRICITY ABROAD

- 52 Electricity Boosting Kenyan Development**
by *Carol Mulholland*
Hydro and geothermal gradually replacing fuelwood and oil.

HEALTH

- 42 BPA, Northwest Utilities Tackle Radon**
by *Robin Cody*
Concern over indoor air quality got mitigation program going.

APPA

- 39 Annual Conference June 27-29**
Varied program planned for Seattle.

- 51 Pix Pay Off**
New photo contest begins.

- 67 Inside APPA**
by *Jacquie Cochran*
Dial APPA staff directly; DEED funds eight more projects; association finance group formed; new publications available.

DEPARTMENTS

- 61 Ad Index, Correction**
62 Books
63 APPA Papers
64 Letters
66 Meetings

publicpower

Editorial and advertising offices:
2301 M Street N.W.
Washington, D.C. 20037
(202) 775-8300 (See page 67 for new
direct dial numbers.)

PUBLIC POWER, issued bimonthly, is the
official publication of the American Public
Power Association. Opinions expressed in
signed articles are not necessarily APPA pol-
icies. For permission to reprint articles,
write or call the publisher.

Editor and publisher
Vic Reinemer
Managing editor
Lori Woehle
Editorial assistant
Laurie Joachim

Advertising manager
W.E. (Trez) Lee
Assistant advertising manager
Peggy Douglas
Circulation manager
Laurie Joachim
Classified advertising manager
Julie Parsley

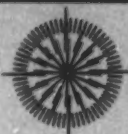
Staff contributors
Ralph Allen
Karen Anderson
Michael K. Bergman
Lisa Bontempo
Larry Bruneel
Madalyn Cafruny
Toni Clark
Jacquie Cochran
Paul Fry
Cindy Gaskill
Anne Marie Gibbons
Ruth Gonze
Larry Hobart
Marty Kanner
John Kelly
Jeanne Wickline LaBella
Dan Lewis
Pat Logie
Lawrence Mansueti
Nancy Mooney
Debbie Nuttall
Eileen Peerless
Alan H. Richardson
Gordon Roberts
Deborah Sliz
Randy Swisher
Jeff Tarbert

Consulting designer
Leckie/Lehmann

Subscription rate: \$35 per year, single copy
\$5; January-February Directory issue: \$40
(\$20 to APPA members).
Second-class circulation postage paid at
Washington, D.C.; USPS-449-420



VBPA



AMERICAN PUBLIC POWER ASSOCIATION

2301 M St. N.W., Washington, D.C. 20037 (202) 775-8300

The American Public Power Association (APPA) is a national service organization representing more than 1,750 local publicly owned electric utilities throughout the country.

OFFICERS 1987-88

JOE EXUM, *president*
WALTER A. CANNEY, *president-elect*
WILLIAM C. MESCHER, *vice-president*
C.M. PERKINS, *treasurer*
LARRY HOBART, *executive director*

DIRECTORS

JAMES A. BAUER, *general manager*,
Piedmont Municipal Power Agency, Greer,
S.C.
JOSEPH BLAIN†, *manager*, Municipal
Lighting Plant, Taunton, Mass.
RONALD W. BOLES, *board chairman*,
Huntsville Utilities, Huntsville, Ala.
WALTER A. CANNEY, *administrator*,
Lincoln Electric System, Lincoln, Neb.
BILL D. CARNAHAN†, *public utilities*
director, Riverside, Cal.
DON COLLETTE, *general manager*,
McMinnville Electric System, McMinnville,
Tenn.
GERALD COPP, *manager*, Public Utility
District No. 1 of Chelan County,
Wenatchee, Wash.
E. LEON DAGGETT, *director of utilities*,
Hamilton, Ohio
MOLLY DARWIN, *councilmember*,
Morganton, N.C.
R. HARRY DAWSON, *general manager*,
Oklahoma Municipal Power Authority,
Edmond, Okla.
DWIGHT DAY†, *board member*, Utah
Associated Municipal Power Systems, Salt
Lake City, Utah
JOE EXUM, *general manager*, Jackson
Utility Division, Jackson, Tenn.
ERNEST GEDDES, *general manager*, Turlock
Irrigation District, Turlock, Cal.
GILBERT E. HANSON JR., *general manager*,
Kansas Municipal Energy Agency, Mission,
Kan.
RANDALL W. HARDY†, *superintendent*,
Seattle City Light, Seattle, Wash.
RICHARD HORKINS, *chairman*, Toronto
Hydro Electric System, Toronto, Ontario

EDWIN C. HOSKINS, *general manager*,
Knoxville Utilities Board, Knoxville, Tenn.
EARL LAMAACK, *board of directors*,
Missouri Basin Municipal Power Agency,
Alexandria, Minn.
STEVE LOVELAND, *Springfield Utility*
Board, Springfield, Ore.
ROYCE LYLE, *managing director*,
Jacksonville Electric Authority, Jacksonville,
Fla.
CAROLYN S. MCNEIL†, *general manager*,
Utah Associated Municipal Power Systems,
Sandy, Utah
WILLIAM C. MESCHER, *president*, Santee
Cooper, Moncks Corner, S.C.
TIM MORAWSKI, *general manager*, Board of
Public Works, Holland, Mich.
BOB NELSON†, *utilities director*, Denton
Electric Light & Power, Denton, Texas
NORMAN NICHOLS, *assistant general*
manager, Department of Water & Power,
Los Angeles, Cal.
REECE D. NIELSEN, *chairman, board of*
directors, Intermountain Power Agency,
Hyrum, Utah
PAUL W. OSLER, *executive director*, Indiana
Municipal Electric Association, Carmel,
Ind.
DAVE PENN, *general manager*, Wisconsin
Public Power Inc. System, Sun Prairie, Wis.
C.M. PERKINS, *assistant general manager/*
financial services, Salt River Project,
Phoenix, Ariz.
CHARLES F. ROSSOLL, *chief engineer/*
assistant general manager, Department of
Public Utilities, Norwich, Conn.
ROBERT E. ROUNDTREE†, *general manager*,
City Utilities, Springfield, Mo.
DON E. SCHAUFELBERGER, *president and*
chief executive officer, Nebraska Public
Power District, Columbus, Neb.
E.C. SHREVE JR., *executive vice president*,
Florida Municipal Utilities Association,
Tallahassee, Fla.
DONALD L. STOKLEY, *general manager*,
Municipal Electric Authority of Georgia,
Atlanta, Ga.
WILLIAM G. TOBIN, *manager*, Rock Rapids
Utilities, Rock Rapids, Iowa
ROBERT VAISEY, *general manager*, Fairport
Municipal Commission, Fairport, N.Y.

† Executive Committee member
† Represents Policy Boards Advisory Council
* Represents Advisory Committee

Help Wanted

ELECTRICAL SYSTEMS SUPERVISOR: \$16.95-\$17.68 per hour. Bachelor's degree in electrical engineering (with power option preferred) or equivalent. Education and experience requirements may be adjusted depending on qualifications. Eight

years of power plant and/or industrial utility system experience in engineering capacity required. Excellent benefits. ALSO:

SUPERINTENDENT OF POWER SUPPLY: \$19.58-\$20.63 per hour. Graduation from an accredited college or university with bachelor's degree in mechanical engineering. Five or more years of specific vocational experience required. Excellent benefits. Send resume to: Personnel Department, 790 N. Homestead Blvd., Homestead, Fla. 33030.

ADVERTISERS' INDEX

APPA	36, 38, 46, 50, 56
AT&T	32-33
Auhll Associates	22
Bauer Compressors	57
R.W. Beck	37
Dean Witter	Cover II
DLJ	4
First Boston	9
Gamma Vision	25
Goldman Sachs	Cover III
Help Wanted	61, 63
Landis & Gyr	30
Marketplace	59
MBIA	44
Merrill Lynch	5, 60
Multi-Amp	48
Nitech	45
Nuveen	3
Ohio Brass	Cover IV
PaineWebber	15
PBI	45
Professional Directory	58-59
Resource Management International	41
S&C	34-35
Shearson Lehman	7
Smith Barney	17

Correction to Directory Table on Net Electric Plant

THE NET ELECTRIC PLANT value of several large public power systems was incorrectly stated in the table that appeared on page D-4 of the January-February 1988 PUBLIC POWER Directory. Construction work in progress was inadvertently omitted from some figures.

The corrected list, with construction work in progress included in net electric plant, follows. It includes three systems that were not among the "Top 20" in the list appearing in the directory—North Carolina Municipal Power Agency #1; the Austin (Texas) Electric Utility Department; and the Orlando (Fla.) Utilities Commission. They replace these three systems that appeared on the "Top 20" list that appeared in the directory: Platte River Power Authority, Fort Collins, Colo.; Jacksonville (Fla.) Electric Authority; and Piedmont Municipal Power Authority, Greer, S.C.

In addition, the kWh sales in 1986 for the Municipal Electric Authority of Georgia, were incorrectly reported on the same page D-4 of the directory issue. The correct figure is 7,128,664,000 kWh. ☀

NET ELECTRIC PLANT—1986

1. Salt River Project, Phoenix, Ariz.*	\$3,537,757,732
2. Los Angeles (Cal.) Department of Water and Power	2,994,598,000
3. New York Power Authority	2,794,991,000
4. San Antonio (Texas) City Public Service	2,466,384,433
5. Municipal Electric Authority of Georgia	2,362,394,000
6. South Carolina Public Service Authority*	1,723,525,413
7. Puerto Rico Electric Power Authority*	1,585,338,000
8. Sacramento (Cal.) Municipal Utility District	1,478,801,000
9. North Carolina Municipal Power Agency #1	1,448,089,000
10. North Carolina Eastern Municipal Power Agency	1,407,195,000
11. Nebraska Public Power District, Columbus, Neb.	1,379,312,000
12. Austin (Texas) Electric Utility Department	1,319,562,591
13. Lower Colorado River Authority, Austin, Texas*	1,047,788,947
14. Texas Municipal Power Agency*	1,044,260,000
15. California Department of Water Resources	1,009,871,000
16. Omaha (Neb.) Public Power District	986,334,625
17. Massachusetts Municipal Wholesale Electric Co.	898,193,000
18. Orlando (Fla.) Utilities Commission*	786,204,517
19. Grand River Dam Authority, Vinita, Okla.	702,207,210
20. Chelan County Public Utility District, Wenatchee, Wash.	660,741,088

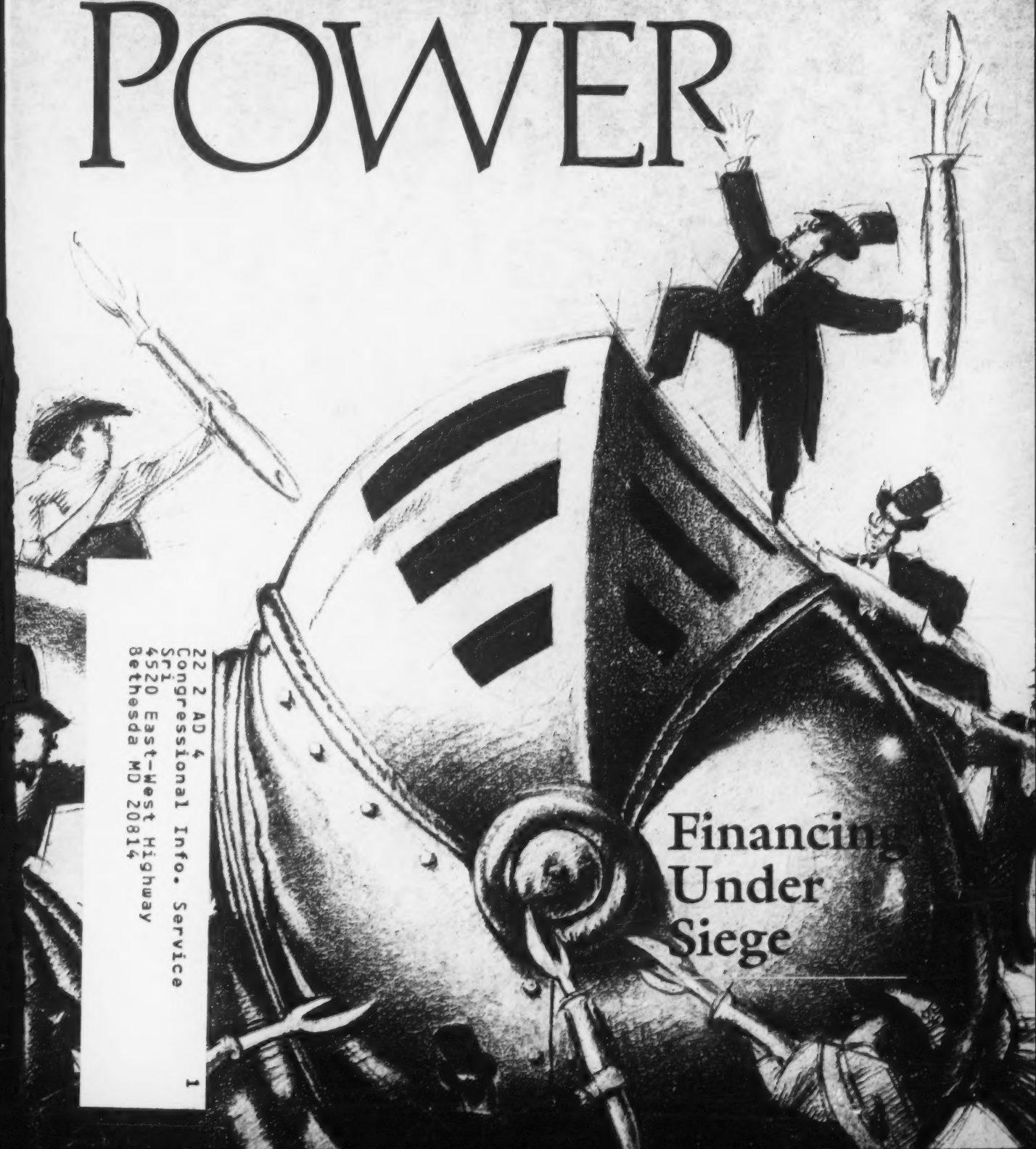
*Fiscal year not coincident with calendar year.

Sources: Annual reports and data reported to APPA

A2625-1
7/11/88

July-August 1988

PUBLIC POWER



Financing
Under
Siege

22 2 AD 4
Congressional Info. Service
Sri
4520 East-West Highway
Bethesda MD 20814

PUBLIC POWER

July-August 1988
Volume 46, Number 4

Cover: State and local government use of tax-exempt bonds is increasingly under attack in Congress. In April the U.S. Supreme Court bolstered those attacks by ruling that intergovernmental tax immunity does not extend to municipal bonds. Public power systems are particularly vulnerable. Articles beginning on page 12 and 18 explore the problem.

Illustration by Scott Travers Wright



Energy use at Lincoln, Neb.'s Firehorn development may be high on the golf course, but it's very low in surrounding luxury homes. See page 38.



A resource recovery plant in Key West, Fla., helped the city escape \$10,000-a-day fines. See page 44.



South Carolina's state-owned utility has a novel approach to training line-workers. See page 52.

FEATURES

- 12 Financing Peril** by *Jeanne Wickline LaBella*
Congress has chipped away at the municipal bond market over the past few years, now the Supreme Court has ruled that the Constitution does not protect the rights of state and local governments to issue tax-exempt bonds.
- 18 The Subsidy Debate** by *John Kelly*
Legislators and regulators attack municipalities' access to tax-exempt bond financing while ignoring the huge federal tax benefits that accrue to investor-owned utilities.
- 22 People Power** by *Cindy Vizza*
A new series of advertisements for use nationwide shows who really controls local publicly owned electric systems.
- 26 Public Power Costs Less**
Customers of private power companies paid, on average, 35 percent more for their electricity in 1986 than customers of public power systems.
- 32 Municipal Pumping Efficiencies** by *Herbert Blinder*
The largest load for many municipal electric utilities is often a sister operation—municipal water supply and waste disposal. This load offers substantial opportunities for conservation and load control.
- 38 Low-Powered Living in High Style** by *Harold Simmons*
The owner of a 4,060-square-foot home in Lincoln, Neb.'s luxurious Firehorn development paid \$307 for seven months of heating.
- 44 Resource Recovery in Paradise** by *Arthur H. Purcell*
The power generated by it is not cheap, but Key West, Fla., is solving trash disposal problems with its waste-to-energy plant.
- 48 What a Dam!** by *John Kounts and Rick Reil*
The Washington Public Utility Districts' Association took a group of congressional staff members on a tour of utility facilities across the state.
- 52 Learning the Ropes** by *Marci Rehg*
Santee Cooper trainees play basketball at the top of utility poles to become accustomed to the height requirements of their jobs.

DEPARTMENTS

- 6 Something to Think About**
- 8 Chronicle**
- 51 Innovations**
- 56 Omega**

THE SUBSIDY DEBATE

*A narrow look at utility financing
could cripple competition.*

by John Kelly

To grasp an idea correctly, it is usually necessary to grasp it as a whole. This notion seems to have no standing in the debate over the relative tax status of public and private power systems. And ignoring it has produced a series of economically perverse federal policies affecting the nation's electric power industry. These policies are the result of a narrow focus on federal revenue losses from tax-exempt, public purpose financing; the failure to acknowledge the sizeable tax subsidies private systems continue to receive; and a general lack of knowledge of the economic and institutional impediments that stifle competition in the electric power industry.

A report prepared for the American Public Power Association by consultant Alan P. Laskin provides estimates of the multibillion dollar federal tax subsidies investor-owned utilities have received from their use of the accelerated depreciation and investment tax credit provisions of the federal tax code. Laskin estimated that for the years 1954 through 1986, IOU revenues could have been reduced by \$56.9 billion had the benefits of these subsidy provisions been passed through to ratepayers. This means electric rates of IOU customers could have been reduced an average of 3.5 percent per year during the 23-year period.

The Laskin report was commissioned to impress upon policymakers that tax preferences to IOUs exist and to highlight the magnitude of these preferences, notwithstanding changes brought about by the Tax Reform Act of 1986.

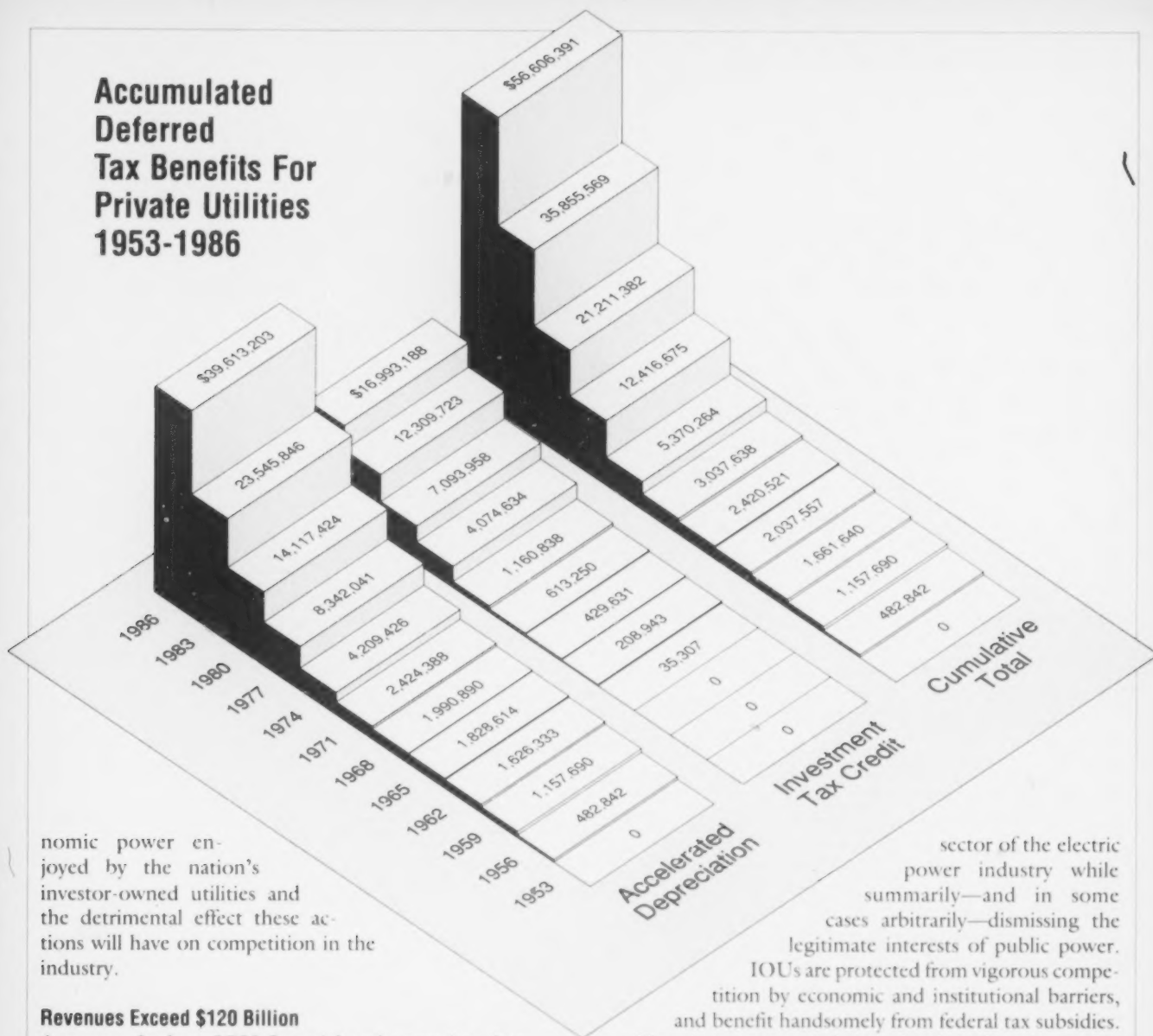
The report also demonstrates the inconsistency and inequity of narrowly focusing on public power's access to tax-exempt financing.

In each of the past two years Congress enacted legislation that weakened the competitive position of public power in particular and competition in the electric power industry in general. The Tax Reform Act of 1986 imposed costly requirements on public power systems, severely restricting opportunities to share ownership and benefits of power plants with private utilities. The 1986 law also imposed restrictions on advance refunding and arbitrage earnings for tax-exempt bonds. In 1987, a provision of the Omnibus Budget Reconciliation Act barred use of tax-exempt financing for purchase of electric output facilities unless the financing fell under state ceilings for private purpose bonds. The 1987 restriction applies to public power systems established after Oct. 13, 1987, and it erects a costly barrier to creation of new public power systems. In addition, Congress in 1986 revoked public power's preference in hydro relicensing, thereby eliminating competition for licenses on established hydro projects.

Currently the Federal Energy Regulatory Commission is, in the name of competition, proposing, in one of three proposed rule makings, to restrict public power from competing in bulk power supply bidding programs.

These congressional and regulatory actions do not take cognizance of the substantial federal tax benefits and eco-

Accumulated Deferred Tax Benefits For Private Utilities 1953-1986



economic power enjoyed by the nation's investor-owned utilities and the detrimental effect these actions will have on competition in the industry.

Revenues Exceed \$120 Billion

A cursory look at IOU financial and operating data reveals their substantial economic power. In 1986 IOU retail revenues exceeded \$120 billion and represented 79 percent of all retail revenues in the industry. IOU retail kWh sales accounted for 77 percent of all retail kWh sales in the industry. And IOU retail revenues were almost seven times those of public power systems. The relative economic influence of IOUs is even greater in certain states and regions. Individual IOUs possess financial and public relations resources that dwarf those of local communities that currently provide their own electric service or desire to do so in the future.

Public power, with 13 percent of the industry's revenues and 15 percent of kWh sales, is the major competitor to investor-owned systems. By severely restricting public power's access to tax-exempt financing while allowing IOUs to continue to benefit mightily from the federal tax system, Congress is legislating competition out of the electric power industry. Many policymakers are uncritically accepting the self-serving arguments of the largest and most powerful

sector of the electric power industry while summarily—and in some cases arbitrarily—dismissing the legitimate interests of public power.

IOUs are protected from vigorous competition by economic and institutional barriers, and benefit handsomely from federal tax subsidies.

These important and obvious facts have been ignored in recent years, and the result has been economically perverse legislative and regulatory policies.

Which Segment Favored?

In his report, *Accelerated Depreciation and the Investment Tax Credit: How Big is the Subsidy for Investor-Owned Utilities?*, Alan Laskin noted that at the center of almost every policy debate on the electric utility industry is the question of which sector—public, private or cooperative—receives more favorable government treatment. Laskin focused on the benefits received by IOUs from their use of the accelerated depreciation and investment tax credit (ITC) provisions of the federal tax code. The ITC was repealed by the Tax Reform Act of 1986, but utilities still benefit from deferred credits earned in previous years. These provisions have been particularly favorable to IOUs because of the capital-intensive nature of the electric power industry. The main questions Laskin addressed were: "How big a subsidy have these two

tax provisions represented for the private utility industry" and "What would IOU revenue requirements have looked like if accelerated depreciation and investment tax credits had not been available?" He answered the questions by assuming that the benefits of the subsidies had been passed through to IOU ratepayers.

Laskin defined a subsidy as the difference between the price of a good or service with and without some preferential government policy. Consequently, it is not sufficient to simply look at the amount of deferred taxes foregone by the federal Treasury to determine the size of a subsidy; it is necessary to look at the impact on prices of eliminating a subsidy. In doing this, however, other important variables should be held constant. The two variables Laskin holds constant are the utilities' net income and cash flow. Eliminating the subsidy would have a significant secondary effect on cash flow, which would be reflected in the price of electricity.

The benefits IOUs derive from accelerated depreciation and ITC come in the form of reduced and deferred tax liabilities. The accelerated depreciation provision of the federal tax code allows them to collect estimated future tax expenses from ratepayers in current periods. The esti-

mated amounts of future-year taxes—taxes collected from ratepayers but not paid to the federal Treasury—are referred to as deferred taxes. The deferred taxes from accelerated depreciation are treated as current period expenses and accumulate in a deferred income tax account. At the end of 1986 IOUs had \$39.6 billion in this account.

For federal income tax purposes, a

the ITC were normalized so that a pro rata share of the credit was passed through to ratepayers each year over the lives of the IOUs' assets for which the credit was received rather than in the year the benefit was received."

IOUs still benefit from the repealed provision because the accumulated deferred ITC amounts on their books are returned to ratepayers gradually over the lives of specific assets. At the end of 1986 there was \$17.0 billion in this account.

In addition, private power companies continue to benefit from the unamortized investment tax credit because they are allowed to earn a rate of return on them. This benefit will last for decades, predicted the National Association of Regulatory Utility Commissioners. "With the demise of the ITC, one is tempted to think the problem has been removed," NARUC said. "Such is not the case."

Ratepayers Provide \$8.1 Billion

Laskin made an initial estimate of the IOU subsidy from accelerated depreciation and ITCs by calculating the impact on their revenues if these benefits were flowed through to IOU ratepayers. For example, for 1986 deferred taxes totaled \$7.7 billion—\$6.9 billion from accelerated depreciation and \$800 million from ITCs. Laskin estimated it would

At the end of 1986 investor-owned systems would have had to replace \$56.6 billion. This amount is, in effect, an interest-free loan they enjoyed from their use of deferred taxes.

utility was allowed to deduct from its current tax bill a percentage of the cost of certain capital assets acquired or put into service in a given year.

"For ratemaking purposes, however," Laskin noted, "the tax benefits of

Resistance to a citizen effort to bring public power to Chicago was the impetus for the 1987 law restricting use of tax-exempt financing to acquire electric utility facilities of private companies. But the debate that propelled passage of the 1987 financing restrictions ignored subsidies to investor-owned utilities.

The economic perversity of the 1987 restriction is readily apparent from a comparison of the electric rates of Commonwealth Edison Co., the IOU serving Chicago, and other utilities. In 1986 Commonwealth Edison's average residential rate was 10.6 cents per kWh. Average residential rates were 7.5 cents per kWh for all other private power companies in Illinois and 6.6 cents for public systems in Illinois. These and national average rates are summarized here:

■ Commonwealth Edison 10.6	■ Private systems, national 7.7	■ Public systems, national 5.9
	■ Private systems, Illinois 7.5	■ Public systems, Illinois 6.6

It should not be surprising that many citizens in Chicago are dissatisfied with Commonwealth Edison's performance and want a change. The 1987 restriction, under the pretext of providing a more competitive environment, weakened the competitive threat to Commonwealth Edison—a utility with an electric rate that is 61 percent higher than its public power competitors in the state and 41 percent higher than the average for other private systems in Illinois.

In a competitive market these disparities would vanish in short order. But in a market dominated by an IOU with substantial economic and political power, the disparities persist. It would seem that the persistent disparities would at least raise doubts, if not provide convincing evidence, that effective competition is absent. □

cost utilities \$900 million in financing costs if their \$7.7 billion of deferred tax benefits were flowed through to ratepayers. However, this added cost would be more than offset by \$1.3 billion in lower utility revenue requirements resulting from lower before-tax income. After accounting for these effects, private companies could have reduced their rates by a net amount of \$8.1 billion while maintaining the same net income and cash flow as before the flow-through to ratepayers of the deferred tax benefits.

The accumulated subsidy for the 1954-1986 period is calculated by totaling the individual annual estimates. Accumulated deferred taxes total \$56.6 billion, and the total amount of additional financing costs are \$7.2 billion. For these years, revenues could have been reduced by \$7.5 billion because of lower taxes resulting from lower before-tax income. The net subsidy for these years is \$56.9 billion.

Debate's Tenor Uneven

Another approach to quantifying the benefit to investor-owned systems of the deferred tax provisions of the federal tax code is to focus on the amount their financing costs would increase if they did not have the use of the accumulated deferred taxes from accelerated depreciation and ITCs. For example, the deferred tax dollars could just as easily have been paid to the federal Treasury, as would have happened in the absence of the deferred tax provisions of the tax code. This approach would result in a different subsidy estimate. At the end of 1986 investor-owned systems would have had to replace \$56.6 billion. This amount is, in effect, an interest-free loan they enjoy from their use of deferred taxes. Estimating the IOU subsidy from this perspective is particularly useful in the continuing debate over the relative tax benefits public and private power receive because it highlights the uneven tenor of the debate.

IOU representatives continually

claim that public power rates would be higher if public power did not have access to tax-exempt financing. While this is true, it is incorrect to conclude that public power has an unfair advantage over investor-owned systems. Moreover, it is unfair to focus on this circumstance affecting public power rates while ignoring the obvious fact that the rates of IOUs would be higher

\$34 billion in deferred taxes.

A more popular approach used to estimate federal tax subsidies is to focus on the revenue loss to the Treasury resulting from federal tax preferences. These losses are commonly referred to as tax expenditures. Using this approach, the subsidies to IOUs from accelerated depreciation and ITCs can be estimated from the deferred tax accounts of the utilities' financial statements: \$7.7 billion for 1986, and \$56.6 billion for the 1954-1986 period. These amounts were the starting point of the Laskin methodology, and are close to his final estimates. The tax expenditures approach and the Laskin approach yield similar estimates because each measures the same concept.

Although IOUs would argue that deferred taxes are paid, this is true only in a nominal sense. Deferred taxes do eventually come due, but they are typically more than offset by new, higher deferred taxes. To see this one need only examine the annual balance sheets of IOUs. If these taxes were being paid, there would be little or no accumulation in the deferred tax accounts of investor-owned systems. At the end of 1954, the first year ac-

celerated depreciation was allowed, IOUs accumulated \$134 million in deferred taxes. By the end of 1986 this deferred tax account grew to \$39.6 billion—almost 300 times what it had been in 1954. ITC deferrals began in 1962 and totaled \$35 million. By the end of 1986 this deferred tax account grew to \$17 billion—486 times its 1962 value.

Although the estimate of the federal tax subsidy to IOUs will vary depending upon the particular assumption used, two important characteristics of the subsidy estimates do not change: (1) the magnitude—several billions of dollars per year, and (2) the significant relative impact on the revenue requirements of investor-owned systems. □

John Kelly is director of economics and research for the American Public Power Association.

M*any policymakers are uncritically accepting the self-serving arguments of the largest and most powerful sector of the electric power industry while summarily—and in some cases arbitrarily—dismissing the legitimate interests of public power.*

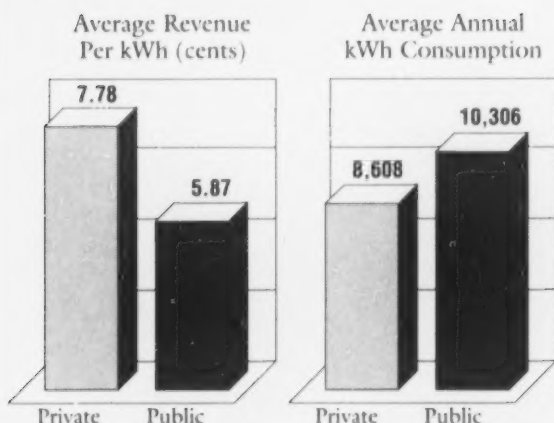
if they did not enjoy billions of dollars of interest-free capital from their use of the deferred tax provisions of the federal tax code.

Taxes Never Paid

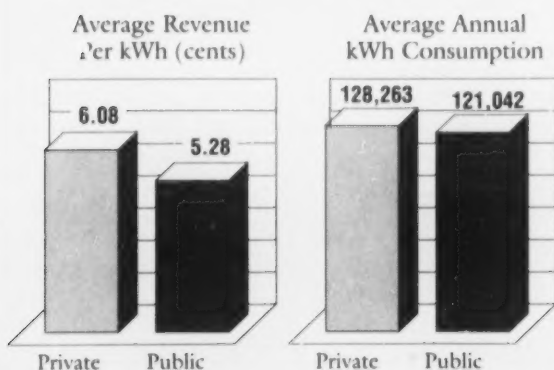
IOUs had the use of approximately \$52.8 billion in interest-free capital available to them during 1986 to finance their operations. If they were to raise \$52.8 billion in debt and equity markets, it would have cost them approximately \$6.2 billion. This is a conservative estimate based on the cost of capital figure of 11.7 percent for 1986 in the Laskin report. The \$6.2 billion in increased financing costs would have raised the rates of IOUs by approximately 4 percent in 1986. The industry itself estimated that its financing costs would have increased by \$6 billion in 1984 if it were deprived of the use of

Public Power Costs Less

1986 Rates and Sales to Residential Consumers



1986 Rates and Sales to Commercial and Industrial Consumers



Data from 1986 reports filed with the U.S. Department of Energy (DOE) by the nation's public and private utilities show that residential customers of local publicly owned electric utilities enjoy average electric rates that are 25 percent lower than those paid by residential customers of privately owned electric companies. Public power systems' average revenue per kWh of sales to ultimate residential customers was 5.87 cents in 1986 while IOUs' average revenue was 7.78 cents.

Statistics for 1986 are derived from the report, *Financial Statistics of Selected Electric Utilities in the United States—1986*, published annually by the DOE, and the department's Form EIA-861. The DOE report contains statistical series begun by the former Federal Power Commission in 1946 for the electric utility industry. Each report has shown that local public power leads the pluralistic electric utility industry in providing consumers with low-cost electricity.

The DOE statistics for 1986 cover 182 private power companies, which comprise 99 percent of investor-owned utility sales. In contrast to past years, however, the 1986 data presented here for public power cover all public systems for average revenue-per-kWh calculations. Data on average consumption per consumer for public systems cover 423 of the largest systems; these systems represent approximately 80 percent of retail kWh sales in the public power sector.

Expense data for public power systems cover 262 utilities, and these utilities represent about 55 percent of retail sales by public power systems.

Because of significant changes in the sample of public power systems reporting to DOE, and in the utilities used in this report, caution should be exercised when making comparisons between 1986 public power statistics and data from

previous years. Differences in the 1986 statistics relative to earlier years may reflect changes in the data sample rather than real trends in the industry.

1.91 Cents per kWh Difference

Residential consumers of public systems paid an average of 1.91 cents, or 25 percent, less for each kWh used in 1986 than customers of private companies. This represents little change from a year earlier when public power customers paid 2.23 cents, or 29 percent, less.

The average cost to public power's residential customers was 5.87 cents per kWh, compared with 7.78 cents for IOU customers. As a result, although the average residential customer of public power systems used 20 percent more electricity (10,306 kWh) in 1986 than the average residential customer of private utilities (8,608 kWh), the public system customers' bills averaged 10 percent less.

The cost of electricity increased in 1986 for residential customers of pub-

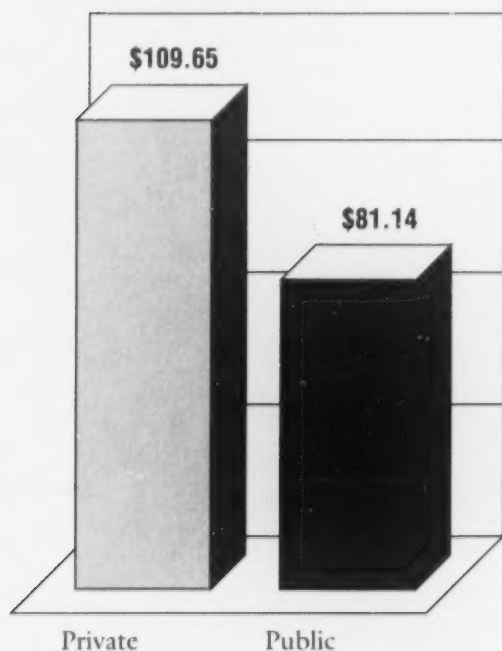
SALES TO RESIDENTIAL CONSUMERS

	Average Annual kWh Consumption		Average Revenue per kWh (cents)	
	Private	Public	Private	Public
1946	1,298	1,739	3.29	2.32
1950	1,767	2,518	2.95	1.99
1955	2,573	3,824	2.76	1.69
1960	3,454	5,208	2.62	1.58
1965	4,618	6,634	2.39	1.53
1966	4,931	7,007	2.34	1.50
1967	5,220	7,317	2.31	1.49
1968	5,706	7,880	2.28	1.47
1969	6,246	8,546	2.21	1.45
1970	6,700	9,015	2.22	1.47
1971	7,039	9,378	2.32	1.56
1972	7,391	9,630	2.42	1.63
1973	7,742	10,080	2.54	1.70
1974	7,550	9,797	3.10	1.94
1975	7,830	10,125	3.51	2.33
1976	7,840	9,539	3.78	2.79
1977	8,256	10,791	4.06	2.79
1978	8,453	11,383	4.31	3.00
1979	8,319	10,940	4.64	3.22
1980	8,531	10,744	5.36	3.77
1981	8,277	10,391	6.20	4.32
1982	8,252	10,188	6.83	4.74
1983	8,366	10,389	7.17	5.03
1984	8,556	10,344	7.54	5.29
1985	8,540	10,362	7.80	5.57
1986	8,608	10,306	7.78	5.87

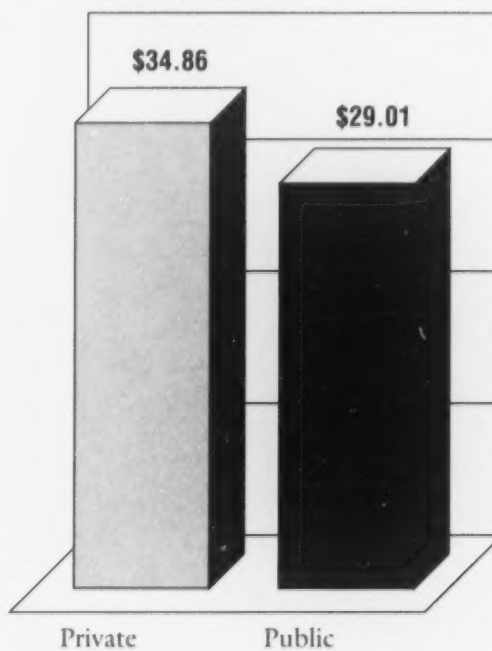
SALES TO COMMERCIAL AND INDUSTRIAL CONSUMERS

	Average Annual kWh Consumption		Average Revenue per kWh (cents)	
	Private	Public	Private	Public
1946	28,110	22,475	1.50	1.29
1950	33,653	25,124	1.54	1.33
1955	49,038	38,329	1.45	1.19
1960	61,944	49,421	1.49	1.22
1965	79,201	66,396	1.40	1.18
1966	85,265	70,557	1.37	1.16
1967	89,347	74,373	1.37	1.16
1968	96,332	79,687	1.36	1.15
1969	102,965	85,683	1.36	1.15
1970	107,041	89,653	1.40	1.17
1971	110,973	92,778	1.50	1.26
1972	117,793	98,384	1.58	1.31
1973	124,082	103,785	1.68	1.40
1974	121,112	102,974	2.19	1.64
1975	119,381	110,076	2.62	1.97
1976	125,296	111,414	2.82	2.38
1977	130,602	124,331	3.12	2.38
1978	132,610	129,874	3.39	2.65
1979	133,355	129,342	3.66	2.88
1980	129,499	124,586	4.38	3.41
1981	129,022	126,429	5.07	3.88
1982	122,096	127,807	5.72	4.31
1983	124,308	126,815	5.79	4.48
1984	132,214	128,801	5.97	4.62
1985	130,853	128,097	6.14	4.92
1986	128,263	121,042	6.08	5.28

Administrative and General Expense Per Customer



Customer Accounts Expense Per Customer



licly owned utilities, but decreased slightly for customers of private companies. The average per-kWh cost for public power customers rose from 5.57 cents in 1985 to 5.87 cents in 1986. This increase is likely due to the change in the sample of utilities rather than a real increase. For private power residential customers, the average per-kWh cost fell from 7.80 cents to 7.78 cents.

In 1986, the cost for a kWh of electricity sold to commercial and industrial customers was 13 percent less in publicly owned systems than in investor-owned systems. The average revenue per kWh sold by public systems to commercial and industrial customers was 5.28 cents, up from 4.92 cents in 1985. Again, the increase is probably due to the change in sample rather than real factors. The cost of power for commercial and industrial customers of IOUs decreased from 6.14 cents to 6.08 cents in 1986.

IOU Managerial Expenses Higher

Administrative and general expenses were \$81.14 per customer for publicly owned systems compared with \$109.65 per customer for private companies. On a per-dollar-of-revenue basis, administrative and general expenses reported by the public systems were \$6.01 per \$100 of revenue versus \$6.27 for private companies.

Customer accounts expenses for 1986 were \$29.01 per customer for publicly owned systems compared with \$34.86 for private utilities.

Production expenses for public power systems were 30.5 mills per kWh sold in 1986 compared with private companies' 27.3 mills. Production expenses include purchased power costs. Distribution expense was \$73.16 per customer for public systems in 1986 and \$60.97 for private companies.

Transmission expense was 1.8 mills per kWh in 1986 for publicly owned systems and 0.7 mills for private companies.

These latest statistical reports indicate that in 1986, as in the previous four decades, local publicly owned electric utilities led private power companies in providing economical electric service to consumers.

Expense Items *

OPERATIONS

	Production Per kWh sold (in mills)		Transmission Per kWh sold (in mills)		Distribution per customer (in dollars)	
	Private	Public	Private	Public	Private	Public
1946	4.35	4.30	.27	.14	\$ 9.37	\$ 9.19
1950	4.96	4.68	.26	.13	12.04	11.77
1955	4.42	4.68	.26	.13	14.18	13.79
1960	4.20	4.70	.25	.15	16.19	10.24
1965	3.98	4.34	.21	.15	17.48	17.93
1966	4.01	4.36	.21	.16	17.84	18.54
1967	4.03	4.31	.21	.15	18.67	19.37
1968	4.09	4.16	.21	.15	19.31	20.43
1969	4.21	4.23	.22	.13	20.56	22.88
1970	4.76	4.61	.23	.15	22.14	24.15
1971	5.49	5.25	.24	.16	22.82	25.41
1972	5.97	5.71	.25	.16	24.13	26.02
1973	6.70	6.47	.26	.17	25.52	27.53
1974	10.72	8.01	.29	.18	26.46	29.98
1975	12.70	9.35	.31	.21	27.63	31.78
1976	13.73	12.04	.34	.29	29.51	34.18
1977	15.87	13.28	.35	.54	31.76	33.78
1978	17.27	14.37	.37	.64	34.81	35.94
1979	19.69	16.32	.40	.67	37.68	38.17
1980	24.14	20.16	.43	.68	41.90	44.83
1981	27.89	23.53	.48	.81	45.19	48.97
1982	29.00	24.64	.56	.86	50.62	53.80
1983	28.55	25.85	.60	.92	54.06	57.36
1984	29.20	26.26	.64	.95	57.71	59.43
1985	29.52	28.91	.69	1.01	60.53	62.04
1986	27.26	30.47	.72	1.79	60.97	73.16

MANAGERIAL

	Customer Accounts Per Customer		Administrative and General Per \$100 Revenue	
	Private	Public	Private	Public
1946	\$ 3.73	\$ 2.82	\$ 7.22	\$ 6.11
1950	4.44	3.35	7.90	6.85
1955	5.33	4.00	6.73	6.59
1960	6.38	4.94	6.29	6.31
1965	7.06	6.15	6.23	5.80
1966	7.18	6.13	6.00	5.84
1967	7.34	6.48	5.87	6.23
1968	7.68	6.78	5.70	6.10
1969	8.11	7.36	5.74	6.08
1970	8.86	7.98	5.87	6.25
1971	9.61	8.77	5.84	6.06
1972	10.31	9.18	5.88	5.96
1973	11.33	9.55	5.78	5.79
1974	13.26	10.61	5.19	5.65
1975	15.25	12.33	4.98	5.14
1976	16.34	14.50	4.99	5.09
1977	17.17	12.75	4.94	4.68
1978	18.59	15.87	5.11	4.64
1979	20.25	16.41	5.21	4.24
1980	22.51	18.40	5.08	4.45
1981	25.82	20.87	5.05	4.22
1982	28.97	23.33	5.42	5.17
1983	30.08	24.47	5.57	5.19
1984	31.82	25.16	5.54	5.69
1985	33.31	26.02	5.85	5.51
1986	34.86	29.01	6.27	6.01

* Data for 1986 are not comparable with previous years. The 1986 data for public power systems reflect expanded coverage of utilities, with adjustments to increase comparability between private and public systems.

PUBLIC POWER

A 26251
9/12/88

September/October 1988

Volume 6 Number 5

222 AD
Congressional Info. Service
4520 East-West Highway
Bethesda MD 20814

1

Searching
For Solutions
To Territorial
Disputes

KEVIN
CHADWICK



PUBLIC POWER

Editorial and advertising offices:
2301 M St. N.W.
Washington, D.C. 20037

PUBLIC POWER (USPS No. 449-420), issued bimonthly, is published by the American Public Power Association, 2301 M St. N.W., Washington, D.C. 20037, a national service organization providing legislative and regulatory monitoring, technical and statistical research, and educational and informational services for the nation's more than 2,200 local publicly owned electric utilities. Opinions expressed in signed articles are not necessarily policies of the association. For permission to reprint articles, write or call the publisher.

<i>Editor and publisher</i>	
Jeanne Wickline LaBella	202/467-2948
<i>Senior Associate Editor</i>	
Lori A. Wochrle	202/467-2947
<i>Editorial Assistant</i>	
Laurie Joachim	202/467-2925
<i>Associate Editor</i>	
Jeannine Anderson	202/467-2977
<i>Innovations Editor</i>	
Jacque Cochran	202/467-2960
<i>Advertising Manager</i>	
W. E. (Trez) Lee	202/467-2953
<i>Assistant Advertising Manager</i>	
Peggy Douglas	202/467-2950
<i>Classified Advertising Manager</i>	
Julie Parsley	202/467-2926
<i>Consulting Designer</i>	
Robert Burke	Wickham & Associates

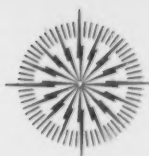
Members of the American Public Power Association receive *Public Power* magazine as part of their annual dues payments. Additionally, a complimentary subscription goes to each chief executive officer and chief policymaking official of every nonmember public power system and rural electric cooperative in the United States. The subscription rate for others is \$35 a year. Single copies cost \$5 each and the January-February annual directory issue costs \$40; (\$20 for APPA members).

Second class postage paid at Washington, D.C., and additional mailing offices. Postmaster: send address changes to *Public Power*, c/o Laurie Joachim, American Public Power Association, 2301 M St. N.W., Washington, D.C. 20037.

Is Your Mailing Label Correct?

If the name, title, or address on your mailing label is not correct, please note the corrections below and clip and send this form to Laurie Joachim, American Public Power Association, 2301 M St. N.W., Washington, D.C. 20037. Changes may be telephoned in by calling Laurie Joachim at 202/467-2925.

Name _____
Title _____
Organization _____
Address _____
City _____ State _____ Zip _____



American Public Power Association

2301 M St. N.W., Washington, D.C. 20037, 202/775-8300

OFFICERS 1988-89

Walter A. Canney, *president*
William C. Mescher, *president-elect*
Tim Morawski, *vice president*
C. M. Perkins, *treasurer*
Larry Hobart, *executive director*

DIRECTORS

WILLIAM BATCHELOR, *city manager*, Rocky Mount, N.C.
JAMES A. BAUER, *general manager*, Piedmont Municipal Power Agency, Greer, S.C.
JOSEPH BLAIN, *manager*, Municipal Lighting Plant, Taunton, Mass.
RONALD W. BOLES, *board chairman*, Huntsville Utilities, Huntsville, Ala.
WALTER A. CANNEY†, *administrator*, Lincoln, Neb. Electric System
DON COLLETTE, *general manager*, McMinnville, Tenn., Electric System
GERALD COPP†, *manager*, Public Utility District No. 1 of Chelan County, Wenatchee, Wash.
E. LEON DAGGETT, *director of utilities*, Hamilton, Ohio
R. HARRY DAWSON†, *general manager*, Oklahoma Municipal Power Authority, Edmond, Okla.
JOE EXUM†, *general manager*, Jackson, Tenn., Utility Division
ERNEST GEDDES, *general manager*, Turlock, Calif., Irrigation District
GILBERT E. HANSON JR., *general manager*, Kansas Municipal Energy Agency, Mission, Kan.
RANDALL W. HARDY, *superintendent*, Seattle, Wash., City Light
TOM HELLER, *general manager*, Moorhead, Minn., Public Service Department
RICHARD HORKINS, *chairman*, Toronto Hydro Electric System, Toronto, Ontario
EDWIN C. HOSKINS, *general manager*, Knoxville, Tenn., Utilities Board
ROY KASER, *manager*, Crawfordsville, Ind., Electric Light and Power
DICK KIRKHAM¹, *executive director*, Minnesota Municipal Utilities Association, Buffalo, Minn.

STEVE LOVELAND, *general manager*, Springfield, Ore., Utility Board
ROYCE LYLES, *managing director*, Jacksonville, Fla., Electric Authority
WILLIAM C. MESCHER†, *president*, Santee Cooper, Moncks Corner, S.C.
TIM MORAWSKI†, *general manager*, Board of Public Works, Holland, Mich.
BOB NELSON, *utilities director*, Denton, Texas, Electric Light & Power
NORMAN NICHOLS†, *assistant general manager*, Department of Water & Power, Los Angeles, Calif.
REECE D. NIELSEN, *chairman*, board of directors, Intermountain Power Agency, Hyrum, Utah
LARRY PAPASAN, *president*, Memphis, Tenn., Light, Gas and Water Division
DAVE PENN, *general manager*, Wisconsin Public Power Inc. System, Sun Prairie, Wis.
C.M. PERKINS†, *assistant general manager/financial services*, Salt River Project, Phoenix, Ariz.
HOWARD RICHMAN², *commissioner*, Cowlitz County PUD #1, Longview, Wash.
CHARLES F. ROSSOLL, *chief engineer/assistant general manager*, Department of Public Utilities, Norwich, Conn.
ROBERT ROUNDTREE†, *general manager*, City Utilities, Springfield, Mo.
DON E. SCHAUFELBERGER, *president and chief executive officer*, Nebraska Public Power District, Columbus, Neb.
E.C. SHREVE JR., *executive vice president*, Florida Municipal Electric Association, Tallahassee, Fla.
DONALD L. STOKLEY†, *president and general manager*, Municipal Electric Authority of Georgia, Atlanta, Ga.
WILLIAM G. TOBIN, *manager*, Rock Rapids, Iowa, Utilities
ROBERT VAISEY, *general manager*, Fairport, N.Y., Municipal Commission

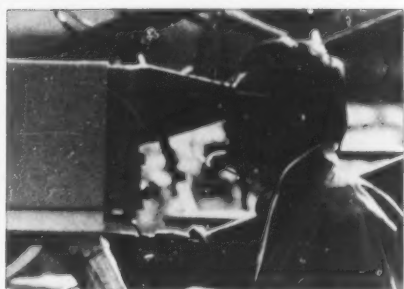
† Executive Committee member

¹ Represents Advisory Committee

² Represents Policy Boards Advisory Council

Cover: Territorial disputes strike at the pride and pockets of municipal and cooperative utilities, but steps are under way to find ways to bring the battles to an end. See pages 14, 18 and 20.

Illustration by Kevin Chadwick



An increasing number of cities with municipally owned utilities are looking at expanding into municipal cable communications operations. See page 26.



New England utilities are saving thousands of dollars and getting better results by relying on other utilities rather than costly consultants to perform management audits of their systems. See page 32.



Farmer City, Ill., is one of four public power systems marking its centennial this year. See page 42.

FEATURES

14 Searching for Solutions to Territorial Disputes *by Jeanne Wickline LaBella*

Municipal and cooperative electric utilities have much in common, but backyard brawls over territory turn industry allies into bitter adversaries.

18 The Missouri Compromise*by Robert Alderson*

The manager of a rural electric cooperative in Missouri describes how his utility and a neighboring municipal electric system reached agreement over territory after years of disputes.

20 How We Got There*by Richard Malon*

The manager of the municipal system explains how two Missouri utilities got to the negotiating table.

22 Measuring Utility Performance *by John Kelly and Cynthia E. Gaskill*

Seventeen categories of utility performance indicators are compiled and reported.

26 The Cable Evolution*by Jeanne Wickline LaBella*

The cable industry grew from infant to monster in a short span of time. Cities are exploring ways to tame the beast.

32 Peer Audits*by Donna Panasci*

Managers of small utilities in New England are teaming up to perform management audits of their brethren utilities.

36 The Innovators*by Jeanne Wickline LaBella*

The 1988 winners of the Energy Innovator Award earned the recognition for a peak-reduction program linked to a municipally owned cable communication system, a program to lease high-efficiency lightbulbs to utility customers for 20 cents a month, and creation of an energy-storing high-mass building block.

42 100 . . . And Counting*by Jeannine Anderson*

Four Midwestern public power systems are observing 100 years of service in 1988.

48 New Partnerships for Economic Development ..*by Toni Clark*

Consumer-owned utilities in Tennessee and South Carolina are joining forces to boost economic development in their regions.

DEPARTMENTS

5	Comebacks	40	Innovations
6	Something to Think About	51	Almanac
8	Chronicle	56	Omega

Measuring Utility Performance

A new report presents 17 financial and operating ratios for public power systems.

by John Kelly and Cynthia E. Gaskill

In what is intended to be an annual report, the American Public Power Association this summer presented data on 17 different financial and operating ratios for approximately 200 and 400 of the largest public power systems in the United States. The report, *Selected Financial and Operating Ratios for Public Power Systems, 1986*, reflects the work of the APPA Task Force on Performance Indicators which was disbanded last January and replaced by the APPA Performance Management Committee.

The task force's work is the result of broad interest on the part of public power system managers in obtaining indicators that will help them monitor utility performance. The ratios included in the report were identified by the task force as those that would be most useful to utility general managers. Indicators on system reliability and customer service were also recommended, but difficulties in collecting sufficient comparable data prevented their inclusion in the initial report.

Although the ratios provide public power systems with a valuable management tool, the numbers do not speak for themselves. They require careful interpretation when used individually or in conjunction with other ratios. It is also important that users be aware of the precise definitions of the ratios and of the special circumstances that may affect the ratios. The report attempts to adjust for some of the circumstances, i.e., size of utility, portion of power supply generated, and geographical region, but there are others that must be considered.

As Carl Thor, president of the American Productivity Center, has noted: "They point to possible operating problems, but do not give the final answer." It is important to be aware of the ratios' limitations to avoid confusion and misinterpretation. These limitations do not, however, preclude the usefulness of the ratios; this is evidenced by the fact that several well-managed public power systems have formal ratio indicator programs in place.

An Important Tool

The ratios provide information to ascertain the efficiency and control the costs of utility operations. Equally important, but sometimes overlooked, they provide the framework for thoughtful analysis and management of utility operations. They are the tangible means that can assist utility managers in formulating and evaluating the utilities' plans, goals and performance.

The ratios in the report are grouped into financial and operating categories. The financial category includes standard financial ratios, and—with the exception of the revenue-per-kilowatt-hour and the revenue-per-customer ratios—are calculated using data in the standard financial reports of utilities. The operating ratios all include one or more physical components. For example, "operation and maintenance expense per kWh sold" includes the dollar value of expenses and the physical unit of the kilowatt-hour.

The data on the ratios have been presented in three different formats: (1) individual summary tables by customer size class, by net power generation, and by geographic region; (2) detailed tables by net power generation and customer size class; and (3) detailed tables by region of the country and customer size class. A summary of the ratio data for all utilities is presented here, along with breakdowns for six regions. The number of utilities used to calculate each ratio appears in parenthesis. (See table.)

75 Percent Of Retail Sales Reflected

The sample of utilities used in the report includes the largest 423 retail public power systems in the nation. Joint action agencies are excluded. These systems account for about 75 percent of all retail sales by public power systems. However, not all the ratios reflect data on these utilities because some did not provide the necessary data. Most utilities reported the data needed to compute the financial ratios—there were more than 400 responses for eight of the nine financial ratios. For several of the operating ratios, however, the response was markedly less, ranging from 182 to 409.

The initial report focuses on the largest 423 utilities because data for those systems are more readily accessible than for smaller systems. APPA plans to increase coverage to include more utilities in future reports. The 423 were grouped into six customer-size classes, ranging from "2,000 to 5,000" to "over 100,000."

Variables that may affect the ratios are: number and composition of customers served; geographic location; population density; source of power supply (and physical, economic, or institutional barriers to acquiring alternative power supply); proportion of power supply generated by a utility; amount of taxes, payments in lieu of taxes, contributions and free electricity or services that a utility makes to a local government; number of contract employees used by

FINANCIAL AND OPERATING RATIOS, 1986^a

Region^b

	All Classes	Northeast	Southeast	N. Central	N. Plains	Southwest	West
1. Revenue per kWh (dollars)							
All Retail Classes	0.054 (416)	0.067 (37)	0.055 (145)	0.055 (74)	0.052 (39)	0.063 (50)	0.050 (71)
Residential	0.058 (416)	0.068 (37)	0.058 (145)	0.059 (74)	0.058 (39)	0.068 (50)	0.053 (71)
Commercial	0.060 (416)	0.073 (37)	0.062 (145)	0.060 (73)	0.053 (39)	0.065 (50)	0.057 (72)
Industrial	0.047 (372)	0.059 (32)	0.048 (128)	0.049 (68)	0.041 (35)	0.053 (43)	0.042 (66)
2. Revenue per Customer (dollars)							
All Retail Classes	1,300 (413)	1,363 (37)	1,521 (144)	1,189 (72)	1,145 (39)	1,394 (50)	1,144 (71)
Residential	593 (413)	516 (37)	739 (144)	469 (72)	544 (39)	667 (50)	501 (71)
Commercial	3,206 (413)	3,459 (37)	2,833 (144)	3,473 (71)	2,755 (39)	3,806 (50)	3,304 (72)
Industrial	49,663 (313)	37,029 (29)	62,871 (121)	60,764 (54)	86,969 (25)	55,812 (35)	35,156 (49)
3. Return on Investment	0.089 (406)	0.088 (36)	0.101 (143)	0.069 (73)	0.055 (36)	0.121 (49)	0.076 (69)
4. Debt-Equity Ratio	0.607 (412)	0.361 (36)	0.645 (145)	0.413 (74)	0.695 (37)	0.594 (49)	0.602 (71)
5. Plant in Service per Retail Customer (dollars)	3,069 (405)	1,330 (36)	2,364 (144)	1,763 (72)	4,992 (37)	4,327 (47)	3,320 (69)
6. Operating Ratio ^c							
Version 1	0.790 (416)	0.884 (37)	0.852 (145)	0.864 (75)	0.727 (37)	0.673 (50)	0.763 (72)
Version 2	0.754 (416)	0.845 (37)	0.826 (145)	0.832 (75)	0.702 (37)	0.642 (50)	0.712 (72)
7. Current Ratio	1.95 (409)	2.08 (36)	1.40 (146)	3.30 (72)	3.20 (37)	2.31 (47)	1.81 (71)
8. Debt Service Coverage	1.84 (299)	2.89 (28)	2.00 (94)	2.52 (53)	1.28 (27)	2.04 (43)	1.72 (54)
9. Net Income per Revenue Dollar (dollars)	0.100 (412)	0.072 (36)	0.081 (145)	0.083 (74)	0.054 (37)	0.181 (50)	0.104 (70)
10. Retail Sales per Non-Production Worker-hour (KWh)	2,595 (182)	2,127 (14)	3,008 (47)	3,327 (35)	1,609 (20)	2,127 (22)	2,622 (44)
11. Retail Customers per Employee	162 (186)	226 (15)	197 (51)	196 (35)	103 (19)	159 (22)	151 (44)
12. Retail Customers per Non-production Employee	202 (186)	277 (15)	235 (51)	291 (35)	144 (19)	208 (22)	183 (44)
13. Operation and Maintenance Expense per kWh Sold (dollars)	0.039 (398)	0.056 (36)	0.046 (137)	0.042 (73)	0.037 (36)	0.039 (48)	0.032 (68)
14. Operation and Maintenance Expense (excluding power production) per Retail Customer (dollars)	188 (394)	195 (36)	157 (136)	169 (71)	242 (36)	139 (48)	222 (67)
15. Labor Expense per Worker-hour (dollars)	14.03 (188)	11.40 (14)	12.65 (50)	13.72 (36)	13.56 (20)	11.30 (22)	16.16 (45)
16. Total Production Expense per KWh sold (dollars)	0.032 (398)	0.047 (36)	0.040 (137)	0.035 (73)	0.030 (36)	0.034 (48)	0.024 (68)
17. Electric Operating Expense per Retail Customer (dollars)	1,232 (409)	1,324 (37)	1,462 (144)	1,155 (72)	1,584 (37)	1,125 (49)	1,038 (70)

NOTE: Asterisks appear for categories with no data or only one response.

^aNumber of observations are in parentheses; ratios are weighted averages.

^bIndividual or combined North American Electric Reliability Council regions.

^cVersion 1 excludes depreciation and amortization expense from O&M expense. In version 2, depreciation and amortization expense, taxes, tax equivalents and contributions to state and local governments are excluded from O&M expense.

utility (consultants or contract labor for maintenance, tree trimming, etc.); financial policies (e.g., proportion of major capital expenditures financed by long-term debt versus current revenues); and the number of utilities reporting for a particular ratio.

Because of these factors, too much significance should not be placed on small differences. The ratios should be used to flag areas that may need further investigation.

Information on definitions, data sources and computations of the ratios is contained in the report along with a listing of the various factors that may influence the ratios.

APPA plans to prepare annual reports on selected financial and operating ratios of public power systems in the United States and to expand the coverage of utilities. Also, future reports may include additional ratios. Copies of the report have been mailed to all APPA member systems. Additional copies are available from Jo Ann Hutchison, APPA, 2301 M St. N.W., Washington, D.C. 20037; 202/467-2908. □

John Kelly is director of economics and research and Cynthia E. Gaskill is manager of statistics for the American Public Power Association.